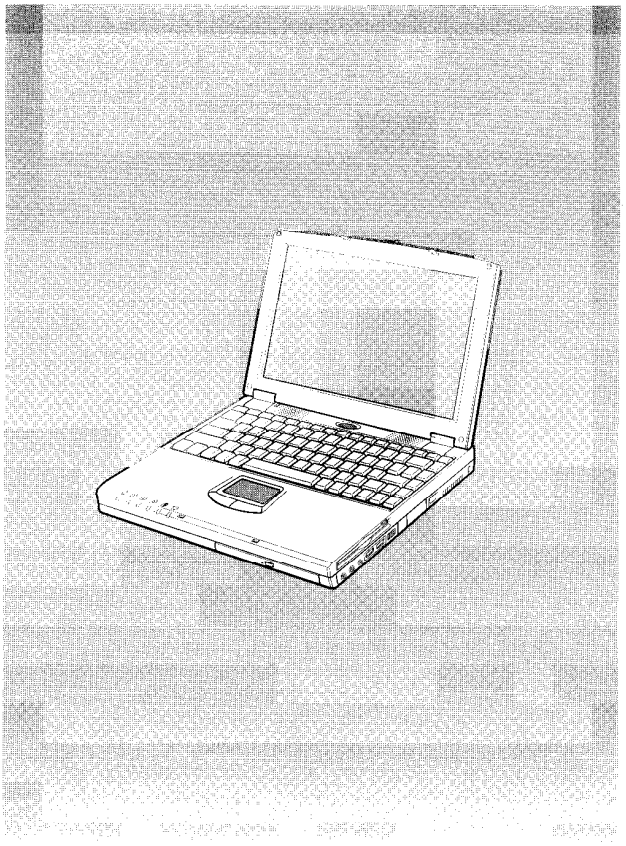
SAMSUNG

# NOTE PC

## SENS 820/850 Series

# SERVICE Manual

**NOTE PC**



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# 1 Specifications

## 1-1 Safety Precautions

### 1-1-1 Federal Communications Commission (FCC) Radio Frequency Interference Statement

#### 1-1-1(a) Warning

This equipment has been certified to comply with the limits for a Class B computing device, pursuant to Subpart J of Part 15 of FCC Rules. Only peripherals (system input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this system. Operation with non-certified peripherals is likely to result in interference to radio and TV reception.

#### 1-1-1(b) Information to User

This equipment generates and uses radio frequency energy and if not installed and used properly , that is, in strict accordance with the manufacturer's instructions, it may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Re-orient the receiving antenna.
2. Relocate the system with respect to the receiver.
3. Plug the system into a different outlet so that the system and receiver are on different branch circuits.
4. Move the cables connected to the system to minimize the interference.
5. Tighten all cable screws.

If necessary, the user should consult the dealer or an experienced radio/televsion technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference." This is available at FCC local regional offices. Samsung Electronics Co., LTD. is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Samsung Electronics Co., LTD. The correction will be the responsibility of the user. Use only shielded data cables with this system.

### 1-1-2 Canadian Radio Interference Regulations

This apparatus does not exceed the class B limits for radio noise emissions set out in the radio interference regulations of the Canadian Department of Communications.

Le prèsent appareil n'émet pas de bruits radioèlectriques dépassant les limites applicable aux appareils digitals de la classe B prescrites par le réglement de brouillage radioélec trique dicté par le Ministére des Communications du Canada.

### 1-1-3 Important Safety Instructions

Read all instructions.

1. Do not use this product near water .
2. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to the product.
3. Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered by a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
4. Do not place this product in a location where the cord may be tripped on.
5. Select a work surface that is large enough to hold the SENS 620 equipment and any additional items required for your work.
6. Do not allow the battery to be exposed to direct sunlight for extended periods of time.
7. Do not allow anything to rest on the power cord.

8. Never push objects of any kind into this product through the cabinet slots, as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
9. If the product is dropped, the cabinet may be damaged.
10. Do not install or remove the detachable hard disk drive with the system turned on.
11. It indicates a need for service that the product exhibits a distinct change in peformance.
12. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth and ISO-prophyl alcohol for cleaning.
13. This product should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
14. If an extension cord is used with this product, make sure it is a 3-pronged, grounded cord and that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord ampere rating. Also, make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
15. NiMH batteries must be recycled or disposed of properly.
16. Do not attempt to disassemble the battery. The electrolyte contained within it is highly toxic and might cause injury to skin or eyes.
17. Charge the battery only as described in this document.
18. Do not short circuit the battery terminals as the resulting high currents can damage the battery.
19. The battery should not be used to power other products.
20. Do not dispose of a used battery in a fire or incinerator.
21. Do not subject the battery to extreme temperature. Battery temperature should be greater than -20°C(-4°F) and less than +50°C (122°F).
22. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

    - When the power cord or plug is damaged or frayed.
    - If liquid has been spilled into the product.
    - If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage.

## 5-1-2 Signal Location

| Signal Name | Sheet Number - Location |
|---|---|
| AD_SEL | 16-B2, 17-B4, 23-B1, 26-D3 |
| ADAPTOR_IN | 17-B3, 26-C3 |
| ADAPTOR_IN* | 15-C3, 16-B1, 25-A1 |
| AGP3_BUSY* | 6-A4, 18-B2, 19-A2, 25-A3 |
| AGP3_GAD(0:31) | 3-A4, 18-D2, 25-C4 |
| AGP3_GADSTBA | 3-A2, 18-B2, 19-A2, 25-C3 |
| AGP3_GADSTBB | 3-A2, 18-B2, 19-A2, 25-C3 |
| AGP3_GCBE*(0:3) | 3-A3, 18-C2, 25-A4 |
| AGP3_GDEVSEL* | 3-A3, 18-B2, 19-A3, 25-C3 |
| AGP3_GFRAME* | 3-A3, 18-B2, 19-A3, 25-C3 |
| AGP3_GGNT* | 3-A2, 18-B2, 19-A3, 25-C3 |
| AGP3_GIRDY* | 3-A3, 18-B2, 19-A3, 25-C3 |
| AGP3_GPAR | 3-A2, 18-B2, 19-A3, 25-C3 |
| AGP3_GREQ* | 3-A2, 6-A4, 18-B2, 19-A3, 25-C3 |
| AGP3_GSTOP* | 3-A2, 18-B2, 19-A3, 25-C3 |
| AGP3_GTRDY* | 3-A2, 18-B2, 19-A3, 25-C3 |
| AGP3_PIPE* | 3-A2, 18-B2, 19-A2, 25-C3 |
| AGP3_RBF* | 3-A2, 18-B2, 19-A2, 25-C3 |
| AGP3_SBA(0:7) | 3-A2, 18-B2, 25-C3 |
| AGP3_SBSTB | 3-A2, 18-B2, 19-A2, 25-C3 |
| AGP3_ST(0:2) | 3-A2, 18-B2, 25-C3 |
| AUD3_GD(0:6) | 20-A1, 20-C1, 22-C4, 26-C3 |
| AUD3_PME* | 8-C2, 22-C3, 25-B2 |
| AUD5_MIC | 22-A1, 22-B1, 26-B3 |
| AUD5_SPKR | 22-B1, 22-C1, 26-B3 |
| BAT5_SMCLKLI* | 16-B4, 23-B1, 26-D3 |
| BAT5_SMDATAMH* | 16-C4, 23-B2, 26-D3 |
| BAT5_TEMP | 15-C1, 23-B1, 25-A1 |
| BAT5_VOLT | 15-C2, 23-B2, 25-B1 |
| CA12_VPP | 10-B1, 10-C4, 25-A2 |
| CB12_VPP | 10-B1, 10-C3, 25-A2 |
| CBA3_A18 | 9-C4, 10-C4, 25-B2 |
| CBA3_CAD(0:31) | 9-D4, 10-D4, 25-D2 |
| CBA3_CAUDIO | 9-D4, 10-B4, 10-C2, 25-B2 |
| CBA3_CBLOCK* | 9-D4, 10-C2, 10-C4, 25-B2 |
| CBA3_CCBE0* | 9-D3, 10-D4, 25-A2 |
| CBA3_CCBE1* | 9-D3, 10-C4, 25-A2 |
| CBA3_CCBE2* | 9-D3, 10-B4, 25-A2 |

| Signal Name | Sheet Number - Location |
|---|---|
| CBA3_CCBE3* | 9-D3, 10-B4, 25-A2 |
| CBA3_CCD1* | 9-C4, 10-C1, 10-D4, 25-B2 |
| CBA3_CCD2* | 9-C4, 10-A4, 10-C1, 25-B2 |
| CBA3_CCLK | 9-D2, 10-C4, 25-A2 |
| CBA3_CCLKRUN* | 9-C4, 10-A4, 10-C2, 25-B2 |
| CBA3_CDEVSEL* | 9-D4, 10-C2, 10-C4, 25-B2 |
| CBA3_CFRAME* | 9-D4, 10-B4, 25-B2 |
| CBA3_CGNT* | 9-D4, 10-C4, 25-B2 |
| CBA3_CINT* | 9-D4, 10-C2, 10-C4, 25-B2 |
| CBA3_CIRDY* | 9-C4, 10-B4, 10-C2, 25-B2 |
| CBA3_CPAR | 9-C4, 10-C4, 25-B2 |
| CBA3_CPERR* | 9-C4, 10-C2, 10-C4, 25-B2 |
| CBA3_CREQ* | 9-C4, 10-B4, 10-C2, 25-B2 |
| CBA3_CRST* | 9-C4, 10-B4, 10-C2, 25-B2 |
| CBA3_CSERR* | 9-C4, 10-B4, 10-C2, 25-B2 |
| CBA3_CSTOP* | 9-C4, 10-C2, 10-C4, 25-B2 |
| CBA3_CSTSCHG | 9-C4, 10-B4, 10-C2, 25-B2 |
| CBA3_CTRDY* | 9-C4, 10-B4, 10-C2, 25-B2 |
| CBA3_CVS1 | 9-C4, 10-C1, 10-C4, 25-A2 |
| CBA3_CVS2 | 9-C4, 10-B4, 10-C1, 25-A2 |
| CBA3_D14 | 9-C4, 10-D4, 25-B2 |
| CBA3_D2 | 9-C4, 10-A4, 25-B2 |
| CBA3_VCC | 9-C4, 10-B1, 10-C2, 10-C4, 25-A2 |
| CBB3_A18 | 9-C1, 10-C3, 25-D2 |
| CBB3_CAD(0:31) | 9-D1, 10-D3, 25-C2 |
| CBB3_CAUDIO | 9-D1, 10-B3, 10-D2, 25-D2 |
| CBB3_CBLOCK* | 9-D1, 10-C3, 10-D2, 25-D2 |
| CBB3_CCBE0* | 9-D2, 10-D3, 25-A2 |
| CBB3_CCBE1* | 9-D2, 10-C3, 25-A2 |
| CBB3_CCBE2* | 9-D2, 10-B3, 25-A2 |
| CBB3_CCBE3* | 9-D2, 10-B3, 25-A2 |
| CBB3_CCD1* | 9-C1, 10-C1, 10-D3, 25-D2 |
| CBB3_CCD2* | 9-C1, 10-A3, 10-C1, 25-D2 |
| CBB3_CCLK | 9-D2, 10-C3, 25-A2 |
| CBB3_CCLKRUN* | 9-C1, 10-A3, 10-D2, 25-D2 |
| CBB3_CDEVSEL* | 9-D1, 10-C3, 10-D2, 25-D2 |
| CBB3_CFRAME* | 9-C1, 10-B3, 25-D2 |
| CBB3_CGNT* | 9-C1, 10-C3, 25-D2 |

| Signal Name | Sheet Number - Location |
|---|---|
| CBB3_CINT* | 9-C1, 10-C3, 10-D2, 25-D2 |
| CBB3_CIRDY* | 9-C1, 10-B3, 10-D2, 25-D2 |
| CBB3_CPAR | 9-C1, 10-C3, 25-D2 |
| CBB3_CPERR* | 9-C1, 10-C3, 10-D2, 25-D2 |
| CBB3_CREQ* | 9-C1, 10-B3, 10-D2, 25-D2 |
| CBB3_CRST* | 9-C1, 10-B3, 10-D2, 25-D2 |
| CBB3_CSERR* | 9-C1, 10-B3, 10-D2, 25-D2 |
| CBB3_CSTOP* | 9-C1, 10-C3, 10-D2, 25-D2 |
| CBB3_CSTSCHG | 9-C1, 10-B3, 10-D2, 25-D2 |
| CBB3_CTRDY* | 9-C1, 10-B3, 10-D2, 25-D2 |
| CBB3_CVS1 | 9-C1, 10-C1, 10-C3, 25-D2 |
| CBB3_CVS2 | 9-C1, 10-B3, 10-C1, 25-D2 |
| CBB3_D14 | 9-C1, 10-D3, 25-D2 |
| CBB3_D2 | 9-C1, 10-A3, 25-D2 |
| CBB3_VCC | 9-C1, 10-B1, 10-C3, 10-D2, 25-D2 |
| CBS3_PME* | 8-C2, 9-A2, 25-B2 |
| CBS3_RI* | 9-A1, 16-C2, 25-C2 |
| CBS3_SDATA | 9-A1, 10-B2, 25-C2 |
| CBS3_SLATCH | 9-A1, 10-B2, 25-D2 |
| CBS3_SPKR | 9-A2, 22-C2, 25-A2 |
| CBS3_SUSCLK | 9-A1, 10-A2, 10-B2, 25-C2 |
| CDD5_A0 | 7-C2, 12-C3, 25-C2 |
| CDD5_A1 | 7-C2, 12-C3, 25-C2 |
| CDD5_A2 | 7-C2, 12-C4, 25-C2 |
| CDD5_COM | 12-C4, 22-B2, 25-A2 |
| CDD5_CS1* | 7-C2, 12-C3, 25-C2 |
| CDD5_CS3* | 7-C2, 12-C4, 25-C2 |
| CDD5_D(0:15) | 7-D2, 12-D3, 12-D4, 25-A3 |
| CDD5_DACK* | 7-C2, 12-C4, 25-C2 |
| CDD5_DREQ | 7-C2, 12-C4, 25-C2 |
| CDD5_IOR* | 7-C2, 12-C3, 25-C2 |
| CDD5_IORDY | 7-C2, 12-C3, 25-C2 |
| CDD5_IOW* | 7-C2, 12-C3, 25-C2 |
| CDD5_L | 12-C4, 22-B2, 25-A2 |
| CDD5_R | 12-C4, 22-B2, 25-A2 |
| CHP3_ACPIEN | 7-B4, 8-B2, 25-C3 |
| CHP3_BIOSCS* | 7-B2, 11-B3, 25-C3 |
| CHP3_BIOSWP | 7-C4, 11-B4, 25-D3 |

| Signal Name | Sheet Number - Location |
|---|---|
| CHP3_CDBUFEN* | 7-B4, 12-C2, 25-C3 |
| CHP3_CDPWRON | 7-B4, 12-B2, 25-C3 |
| CHP3_CDRST* | 7-B4, 12-D3, 25-C3 |
| CHP3_CPUSTP* | 2-C4, 7-B4, 25-D4 |
| CHP3_DOCKAUD | 7-C4, 22-B3, 25-D3 |
| CHP3_FANON1* | 7-B4, 8-A2, 25-C3 |
| CHP3_HDDBUFEN* | 7-B4, 12-D2, 25-C3 |
| CHP3_HDDPWRON | 7-B4, 12-A2, 25-C3 |
| CHP3_HDDRST* | 7-B4, 12-B4, 25-C3 |
| CHP3_IVTPWRON | 7-B4, 19-A2, 25-C3 |
| CHP3_KBCCS* | 7-B4, 15-C2, 25-C3 |
| CHP3_LEGTHRM* | 7-C4, 8-B2, 25-C3 |
| CHP3_PCGNTA* | 7-B4, 9-A1, 25-C3 |
| CHP3_PCGNTB* | 7-B4, 22-B4, 25-C3 |
| CHP3_PCISTP* | 2-C4, 7-B4, 25-D4 |
| CHP3_PCREQA* | 7-D4, 9-A1, 25-D3 |
| CHP3_PCREQB* | 7-D4, 22-B4, 25-C3 |
| CHP3_PMCCS* | 7-B2, 15-C2, 25-C3 |
| CHP3_PME* | 7-C4, 8-C1, 25-D3 |
| CHP3_PORT80* | 7-B2, 25-C3 |
| CHP3_RSTDCK* | 7-B4, 20-C4, 25-C3 |
| CHP3_SERIRQ | 6-C1, 7-C4, 9-A1, 20-C2, 22-B4, 24-B2, 25-A3 |
| CHP3_SPDSELA* | 5-A4, 7-B4, 25-B3 |
| CHP3_SPDSELB* | 5-A4, 7-B4, 25-B3 |
| CHP3_SPKR | 7-B4, 22-C2, 25-C3 |
| CHP3_SUSA* | 2-B3, 2-C3, 7-B2, 15-C1, 25-C4 |
| CHP3_SUSB* | 3-D3, 7-B4, 25-C3 |
| CHP3_SUSC* | 7-B4, 9-A2, 25-C3 |
| CHP3_SUSCLK | 7-B2, 10-A2, 18-C2, 25-C3 |
| CHP3_SUSSTAT1* | 3-D3, 7-B4, 18-B2, 25-C4 |
| CHP3_SUSSTAT2* | 7-B4, 20-C2, 25-C3 |
| CHP3_SWAPIN* | 7-C4, 12-C3, 25-D3 |
| CHP3_THRM* | 7-C4, 8-B1, 25-D3 |
| CHP3_USBPWR0* | 7-C4, 17-D4, 25-D3 |
| CHP3_USBPWR1* | 7-C4, 17-D4, 25-D3 |
| CHP3_VGASUS* | 7-C4, 18-C2, 25-C3 |
| CLK2_HCLK0 | 2-D1, 3-B4, 25-D4 |

| Signal Name | Sheet Number - Location |
|---|---|
| CLK2_HCLK1 | 2-D1, 3-B4, 25-D4 |
| CLK3_48MHZ | 2-C3, 6-B3, 25-D4 |
| CLK3_DCLKRW | 2-B1, 3-A4, 25-C4 |
| CLK3_MCLK0 | 2-B1, 5-C4, 25-C4 |
| CLK3_MCLK1 | 2-B1, 5-C3, 25-C4 |
| CLK3_MCLK2 | 2-B1, 5-C2, 25-C4 |
| CLK3_MCLK3 | 2-B1, 5-C1, 25-C4 |
| CLK3_OSCIO | 2-D1, 13-B4, 25-D4 |
| CLK3_OSCPX4 | 2-D1, 6-B3, 25-D4 |
| CLK3_PCLK0 | 2-D1, 20-A2, 25-D4 |
| CLK3_PCLK1 | 2-D1, 24-B3, 25-D4 |
| CLK3_PCLKAUD | 2-D1, 22-C3, 25-D4 |
| CLK3_PCLKBX | 2-D1, 3-A4, 25-D4 |
| CLK3_PCLKCB | 2-D1, 9-A3, 25-D4 |
| CLK3_PCLKPX4 | 2-C1, 6-B3, 25-D4 |
| CPU2_A20M* | 3-B4, 3-C4, 6-A4, 25-B4 |
| CPU2_FERR* | 3-B4, 6-B4, 25-C4 |
| CPU2_IGNNE* | 3-B4, 3-C4, 6-B4, 25-C4 |
| CPU2_INIT* | 3-B4, 3-C4, 6-B4, 25-B4 |
| CPU2_INTR | 3-B4, 3-C4, 6-B4, 25-B4 |
| CPU2_NMI | 3-B4, 3-C4, 6-B4, 25-B4 |
| CPU2_SMI* | 3-A4, 3-C4, 6-B4, 25-B4 |
| CPU2_STPCLK* | 3-A4, 3-C4, 6-B4, 25-B4 |
| DCK3_PCIRST* | 20-C2, 20-C4, 26-C3 |
| DCK3_SCLK | 20-C1, 22-B3, 26-C3 |
| DCK3_SDATA_IN | 20-C1, 22-B3, 26-C3 |
| DCK3_SDATA_OUT | 20-C1, 22-B3, 26-C3 |
| DCK3_SDFS0 | 20-C1, 22-B3, 26-C3 |
| DCK3_SUSCLK | 10-A2, 20-C2, 25-A2 |
| DCK5_DCKIN1* | 15-C3, 20-C3, 25-A1 |
| DCK5_EJECT | 15-C3, 20-A2 |
| DCK5_LANWAKE* | 15-D3, 20-C1, 25-A1 |
| DCK5_PME* | 8-C2, 20-C2, 25-B2 |
| DCK5_PORT* | 15-C1, 20-A1, 25-A1 |
| DCK5_SPKR | 20-C2, 22-C2, 26-B3 |
| DOCK_DC | 17-B4, 20-A4, 23-B1, 23-B2, 23-C2, 26-C3 |
| FDD5_DIR* | 12-C4, 13-C3, 23-B4, 23-C4 25-B2 |

| Signal Name | Sheet Number - Location |
|---|---|
| FDD5_DS0* | 12-C3, 13-C1, 13-C3, 17-B3, 23-B4, 23-C4, 25-B2 |
| FDD5_DSKCHG* | 12-C4, 13-B3, 13-C1, 23-B4, 23-C4, 25-B2 |
| FDD5_EXTIN* | 7-C4, 23-C4, 25-D3 |
| FDD5_HDSEL* | 12-C3, 13-B3, 23-B4, 23-C4, 25-B2 |
| FDD5_INDEX* | 12-C4, 13-C2, 13-C3, 23-A4, 23-C4, 25-B2 |
| FDD5_J3MODE | 12-C3, 13-C3, 23-B3, 23-C4, 25-B2 |
| FDD5_MTR0* | 12-C3, 13-C3, 23-B4, 23-C4, 25-B2 |
| FDD5_RDATA* | 12-C4, 13-B3, 13-C2, 23-B4, 23-C4, 25-B2 |
| FDD5_STEP* | 12-C3, 13-C3, 23-B4, 23-C4, 25-B2 |
| FDD5_TRK0* | 12-C4, 13-B3, 13-C2, 23-B4, 23-C4, 25-B2 |
| FDD5_WDATA* | 12-C4, 13-C3, 23-B4, 23-C4, 25-B2 |
| FDD5_WGATE* | 12-C3, 13-B3, 23-B4, 23-C4, 25-B2 |
| FDD5_WP* | 12-C3, 13-B3, 13-C2, 23-B4, 23-C4, 25-B2 |
| FIR5_MOD | 13-B3, 22-B2, 25-B2 |
| FIR5_RXD | 13-B3, 22-B2, 25-B2 |
| FIR5_TXD | 13-B3, 22-B2, 25-B2 |
| HDD5_A0 | 7-D2, 12-A4, 25-D2 |
| HDD5_A1 | 7-D2, 12-B4, 25-D2 |
| HDD5_A2 | 7-D2, 12-A3, 25-D2 |
| HDD5_CS1* | 7-C2, 12-A4, 25-D2 |
| HDD5_CS3* | 7-C2, 12-A3, 25-D2 |
| HDD5_D(0:15) | 7-D2, 12-B3, 25-B3 |
| HDD5_DACK* | 7-C2, 12-B4, 25-D2 |
| HDD5_DREQ | 7-C2, 12-B4, 25-D2 |
| HDD5_IOR* | 7-D2, 12-B4, 25-D2 |
| HDD5_IORDY | 7-C2, 12-B4, 25-D2 |
| HDD5_IOW* | 7-D2, 12-B4, 25-D2 |

| Signal Name | Sheet Number - Location |
|---|---|
| HDD5_LED* | 12-C1, 17-B3, 25-A2 |
| HDD5_QIRQ(14) | 12-B4, 12-C2, 12-C3, 12-D2, 25-A2, 25-B2 |
| HDD5_QLED* | 12-A4, 12-C2, 25-A2 |
| INT_VDC | 19-A1, 19-D1, 26-D3 |
| ISA3_AEN | 6-B3, 13-D4, 25-B3 |
| ISA3_DACK*(0:3) | 7-A4, 13-C3, 13-C4, 25-D2 |
| ISA3_DRQ(0:7) | 7-A4, 7-C1, 13-B4, 13-C4, 25-D2 |
| ISA3_IOCHK* | 6-C1, 7-D4 |
| ISA3_IOCHRDY | 6-B3, 6-C1, 13-B4, 25-B3 |
| ISA3_IOCS16* | 6-B3, 6-C1, 25-B3 |
| ISA3_IOR* | 6-B3, 6-C1, 13-D4, 15-C2, 25-B3 |
| ISA3_IOW* | 6-B3, 6-C1, 13-D4, 15-C2, 25-B3 |
| ISA3_IRQ(15) | 7-B2, 7-C1, 7-C2, 7-D1, 12-C1, 12-D1, 13-B4, 13-C3, 15-C2 |
| ISA3_MEMCS16* | 6-B3, 6-C1, 25-B3 |
| ISA3_MEMR* | 6-B3, 6-C1, 11-B3, 25-B3 |
| ISA3_MEMW* | 6-B3, 6-C1, 11-B4, 25-B3 |
| ISA3_REFRESH* | 6-B3, 6-C1, 25-B3 |
| ISA3_RSTDRV | 6-B3, 13-B4, 25-B3 |
| ISA3_SA(0:19) | 6-D3, 11-C3, 13-B3, 13-D4, 15-C2, 25-D1 |
| ISA3_SBHE* | 6-B3, 6-C1, 25-B3 |
| ISA3_SD(0:15) | 6-C1, 6-C3, 11-C2, 13-C4, 15-C2, 25-D1 |
| ISA3_TC | 7-A4, 13-B4, 25-C3 |
| ISA3_ZWS* | 6-B3, 6-C1, 13-B4, 25-B3 |
| KBC2_PWRGDBX | 3-D3, 16-D1, 25-C4 |
| KBC3_EXTSMI* | 7-B2, 8-D1, 25-C3 |
| KBC3_PWRGDPX4 | 7-B1, 16-D1, 25-C3 |
| KBC3_RUNSCI* | 7-D4, 8-D1, 25-D3 |
| KBC3_WAKESCI* | 7-C4, 8-C1, 25-D3 |
| KBC5_A20G | 6-A4, 15-C2, 25-A3 |
| KBC5_BKLTON | 15-B2, 19-B2, 25-A1 |
| KBC5_BRIT | 15-C1, 19-C2, 25-A1 |

| Signal Name | Sheet Number - Location |
|---|---|
| KBC5_CAPSLED | 15-B2, 16-A4, 25-A1 |
| KBC5_CAPSLED* | 16-A4, 17-B3, 26-D3 |
| KBC5_CHGEN | 15-B3, 17-B3, 23-B2, 25-B1 |
| KBC5_CHGMOD | 15-B3, 23-B1, 25-B1 |
| KBC5_CPURST | 6-A4, 15-B3, 25-A3 |
| KBC5_DCKDCEN | 15-C2, 20-A3, 25-B1 |
| KBC5_EXTSMI* | 8-D2, 15-B2, 25-C2 |
| KBC5_FCTRL | 15-D2, 16-D4, 25-B1 |
| KBC5_FVPP | 15-B1, 16-D3, 25-A1 |
| KBC5_KSI(0:7) | 15-B3, 17-C2, 26-B3 |
| KBC5_KSO(0:15) | 15-C3, 17-D2, 26-B3 |
| KBC5_LBLED | 15-B2, 16-A3, 25-A1 |
| KBC5_LBLED* | 16-A3, 17-B3, 26-D3 |
| KBC5_LIDCLOSE* | 16-A1, 19-B2, 19-D1, 26-C3 |
| KBC5_MCHG* | 15-B3, 23-B2, 25-B1 |
| KBC5_NUMLED | 15-B2, 16-B3, 25-B1 |
| KBC5_NUMLED* | 16-B3, 17-B3, 26-D3 |
| KBC5_PWRGD* | 15-B2, 16-D2, 25-A1 |
| KBC5_PWRON | 15-B2, 23-C2, 25-A1 |
| KBC5_PWRSW* | 15-B1, 15-D3, 20-A2, 23-C1, 25-A1 |
| KBC5_QS* | 15-B3, 23-B2, 25-B1 |
| KBC5_RING* | 15-C1, 16-C1, 25-A1 |
| KBC5_RST* | 15-B1, 23-C2, 25-A1 |
| KBC5_RUNSCI | 8-D2, 15-C2, 25-C2 |
| KBC5_SCLED | 15-B2, 16-B4, 25-B1 |
| KBC5_SCLED* | 16-B4, 17-B3, 26-D3 |
| KBC5_SMCLKLI* | 15-C1, 16-B3, 25-A1 |
| KBC5_SMDATAMH* | 15-B3, 16-C3, 25-B1 |
| KBC5_SPKMUTE | 15-D3, 20-C1, 22-B2, 25-A1 |
| KBC5_TCLK | 15-C3, 17-B3, 25-B1 |
| KBC5_TDATA | 15-C3, 17-B3, 25-B1 |
| KBC5_VOLDN* | 15-D3, 22-B4, 25-B1 |
| KBC5_VOLUP* | 15-D3, 22-B4, 25-A1 |
| KBC5_WAKESCI* | 8-C2, 15-D2, 25-B2 |
| LCD_VDD3V | 19-B1, 19-C2, 26-D3 |
| LCD5_BKLTON | 19-B1, 19-D1, 26-D3 |
| LCD5_BRIT | 19-C1, 19-D1, 26-D3 |
| MDM3_PME* | 8-C2, 24-C2, 25-B2 |

| Signal Name | Sheet Number - Location |
|---|---|
| MDM3_RI* | 16-C2, 24-C3, 26-D3 |
| MDM5_AUDIO | 22-B1, 24-B2, 26-B3 |
| MEM3_CKE0 | 3-D3, 5-C3, 25-D4 |
| MEM3_CKE1 | 3-D3, 5-C3, 25-D4 |
| MEM3_CKE2 | 3-D3, 5-C1, 25-D4 |
| MEM3_CKE3 | 3-D3, 5-C1, 25-D4 |
| MEM3_CSA0* | 3-D4, 5-C4, 25-C4 |
| MEM3_CSA1* | 3-D4, 5-C4, 25-C4 |
| MEM3_CSA2* | 3-D4, 5-C2, 25-C4 |
| MEM3_CSA3* | 3-D4, 5-C2, 25-C4 |
| MEM3_DQMA*(0:7) | 3-D3, 5-B1, 5-B2, 5-B3, 5-B4, 5-C1, 5-C2, 5-C3, 5-C4 |
| MEM3_MA(0:13) | 3-D1, 4-C2, 4-D2, 5-B1, 5-B2, 5-B3, 5-B4, 5-C1, 5-C2 |
| MEM3_MD(0:63) | 3-A1, 4-C4, 25-D1 |
| MEM3_MWEA* | 3-D3, 5-C2, 5-C4, 25-D4 |
| MEM3_RMD(0:63) | 4-B2, 5-D2, 5-D4, 25-D1 |
| MEM3_SCASA* | 3-D3, 5-C1, 5-C3, 25-D4 |
| MEM3_SRASA* | 3-D3, 5-C2, 5-C4, 25-D4 |
| MMO3_MID0 | 3-D2, 7-C4, 25-D3 |
| MMO3_MID1 | 3-D2, 7-C4, 25-D3 |
| MMO3_MID2 | 3-D2, 7-C4, 25-D3 |
| MMO3_MID3 | 3-D2, 7-C4, 25-D3 |
| MMO3_VRPWRGD | 3-D3, 7-B1, 25-C3 |
| NBX3_DCLKO | 2-B3, 3-A4, 25-D4 |
| NBX3_FQS | 2-C4, 3-A4, 25-D4 |
| NBX3_GCLKO | 3-A4, 18-A2, 18-C2, 25-B4 |
| PCI3_AD(0:31) | 3-D4, 6-B4, 6-D4, 9-A4, 20-A2, 20-D2, 22-C3, 22-D4, 24-B2 |
| PCI3_CBE0* | 3-C4, 6-C4, 9-A3, 20-A2, 22-C3, 24-C2, 25-B4 |
| PCI3_CBE1* | 3-C4, 6-C4, 9-A3, 20-A2, 22-C3, 24-C2, 25-B4 |
| PCI3_CBE2* | 3-C4, 6-C4, 9-A3, 20-A2, 22-C3, 24-C3, 25-B4 |
| PCI3_CBE3* | 3-C4, 6-B4, 9-A3, 20-A2, 22-C3, 24-C3, 25-B4 |
| PCI3_CLKRUN* | 3-B4, 6-B4, 6-C1, 9-A2, 18-B2, 22-B4, 24-C2, 25-B4 |
| PCI3_DEVSEL* | 3-C4, 6-B4, 6-D1, 9-A2, 20-C2, 22-C3, 24-C3, 25-B4 |
| PCI3_FRAME* | 3-C4, 6-B4, 6-C1, 9-A2, 20-A2, 22-C3, 24-C2, 25-B4 |
| PCI3_GNT0* | 3-B4, 6-D1, 20-C2, 25-A4 |
| PCI3_GNT1* | 3-B4, 6-D1, 20-C2, 25-A4 |
| PCI3_GNT2* | 3-B4, 6-D1, 24-B3, 25-A4 |
| PCI3_GNT3* | 3-B4, 6-D1, 9-A2, 25-A4 |
| PCI3_GNT4* | 3-B4, 6-D1, 22-C3, 25-A4 |
| PCI3_INTA* | 6-D1, 7-B2, 9-A1, 20-A2, 24-B2, 25-A3 |
| PCI3_INTB* | 6-D1, 7-B2, 9-A1, 20-C2, 25-A3 |
| PCI3_INTC* | 6-D1, 7-B2, 18-B2, 20-A2, 22-C3, 25-A3 |
| PCI3_INTD* | 6-D1, 7-B2, 20-C2, 25-A3 |
| PCI3_IRDY* | 3-B4, 6-B4, 6-D1, 9-A2, 20-A2, 22-C3, 24-C3, 25-B4 |
| PCI3_PAR | 3-B4, 6-B4, 6-D1, 9-A2, 20-C2, 22-C3, 24-C3, 25-B4 |
| PCI3_PERR* | 6-C1, 9-A2, 24-C3, 25-A3 |
| PCI3_PHLDA* | 3-B4, 6-B4, 6-D1, 25-B4 |
| PCI3_PHOLD* | 3-B4, 6-B4, 6-D1, 25-B4 |
| PCI3_PLOCK* | 3-B4, 6-D1, 9-A2, 20-C2, 22-C3, 25-B4 |
| PCI3_REQ0* | 3-B4, 6-B4, 6-D1, 20-C2, 25-A4 |
| PCI3_REQ1* | 3-B4, 6-A4, 6-D1, 20-C2, 25-A4 |
| PCI3_REQ2* | 3-B4, 6-A4, 6-C1, 24-B3, 25-A4 |
| PCI3_REQ3* | 3-B4, 6-A4, 6-C1, 9-A2, 25-A4 |
| PCI3_REQ4* | 3-B4, 6-A4, 6-C1, 22-C3, 25-A4 |
| PCI3_RST* | 3-B4, 6-B4, 9-A2, 10-B2, 18-B2, 20-C4, 22-B2, 22-C3, 24-C3 |

| Signal Name | Sheet Number - Location |
|---|---|
| PCI3_SERR* | 3-B4, 6-B4, 6-D1, 9-A2, |
| | 20-A2, 24-C2, 25-B4 |
| PCI3_STOP* | 3-B4, 6-B4, 6-D1, 9-A2, |
| | 20-A2, 22-C3, 24-C2, 25-B4 |
| PCI3_TRDY* | 3-B4, 6-B4, 6-D1, 9-A2, |
| | 20-C2, 22-C3, 24-C2, 25-B4 |
| PIO5_ACK* | 13-D3, 14-A4, 20-C3, 25-C1 |
| PIO5_AUTOFD* | 13-C3, 14-B4, 20-C3, 25-C1 |
| PIO5_BUSY | 13-D3, 14-A4, 20-A3, 25-C1 |
| PIO5_ERROR* | 13-C3, 14-B4, 20-A3, 25-C1 |
| PIO5_INIT* | 13-D3, 14-B4, 20-C3, 25-C1 |
| PIO5_PD(0:7) | 13-C3, 14-A4, 14-B4, 20-A3, |
| | 20-C3, 25-B1 |
| PIO5_PE | 13-D3, 14-A4, 20-C3, 25-C1 |
| PIO5_SLCT | 13-D3, 14-A4, 20-A3, 25-C1 |
| PIO5_SLCTIN* | 13-D3, 14-B4, 20-A3, 25-C1 |
| PIO5_STROBE* | 13-D3, 14-B4, 20-A3, 25-C1 |
| PS25_KCLK | 15-C3, 17-B2, 20-C3, 25-B1 |
| PS25_KDATA | 15-C3, 17-B2, 20-C3, 25-A1 |
| PS25_MCLK | 15-C3, 17-B2, 20-C3, 25-B1 |
| PS25_MDATA | 15-C3, 17-B2, 20-C3, 25-A1 |
| SIO5_CTS* | 14-C4, 14-D3, 20-A3, 25-B1 |
| SIO5_CTS1* | 13-B3, 14-D3, 25-B2 |
| SIO5_DCD* | 14-C4, 14-D4, 20-C3, 25-B1 |
| SIO5_DCD1* | 13-B3, 14-D4, 25-B2 |
| SIO5_DSR* | 14-C4, 14-D4, 20-A3, 25-B1 |
| SIO5_DSR1* | 13-B3, 14-D4, 25-B2 |
| SIO5_DTR* | 14-C4, 14-D4, 20-C3, 25-B1 |
| SIO5_DTR1* | 13-B3, 14-D3, 25-B2 |
| SIO5_RI* | 14-C4, 14-D3, 20-A3, 25-B1 |
| SIO5_RI1* | 13-B3, 14-D3, 25-B2 |
| SIO5_RTS* | 14-C4, 14-D4, 20-A3, 25-B1 |
| SIO5_RTS1* | 13-B3, 14-D4, 25-B2 |
| SIO5_RXD | 14-C4, 14-D3, 20-C3, 25-B1 |
| SIO5_RXD1 | 13-B3, 14-D3, 25-B2 |
| SIO5_TXD | 14-C4, 14-D4, 20-C3, 25-B1 |
| SIO5_TXD1* | 13-B3, 14-D4, 25-B2 |
| SMB3_ALERT* | 3-D2, 7-C4, 8-B2, 25-D3 |
| SMB3_CLK | 2-B3, 3-D3, 5-A4, 7-B1, |

| Signal Name | Sheet Number - Location |
|---|---|
| | 20-B3, 25-D4 |
| SMB3_DATA | 2-B3, 3-D2, 5-A4, 7-B1, |
| | 20-B3, 25-D4 |
| SMB3_SCA | 5-A3, 5-A4, 25-B3 |
| SMB3_SCB | 5-A1, 5-A4, 25-B3 |
| SMB3_SDA | 5-A4, 25-B3 |
| SMB3_SDB | 5-A2, 5-A4, 25-B3 |
| SND3_C24 | 20-C1, 22-B2, 22-B3, 26-C3 |
| SND3_RXD | 20-C1, 22-B3, 26-C3 |
| SND3_SCLK | 22-C2, 22-C3, 26-C3 |
| SND3_SDATA_IN | 22-B2, 22-C3, 26-B3 |
| SND3_SDATA_OUT | 22-B2, 22-B3, 26-B3 |
| SND3_SDFS0 | 22-C2, 22-C3, 26-B3 |
| SND3_TXD | 20-C1, 22-B3, 26-C3 |
| SND5_SPKOUTL- | 19-D1, 22-B1, 26-D3 |
| SND5_SPKOUTL+ | 19-D1, 22-B1, 26-D3 |
| SND5_SPKOUTR- | 19-D1, 22-C1, 26-D3 |
| SND5_SPKOUTR+ | 19-D1, 22-C1, 26-D3 |
| SWP3_ID0 | 7-C4, 12-D4, 25-D3 |
| SWP3_ID1 | 7-C4, 12-D4, 25-D3 |
| SWP3_ID2 | 7-C4, 12-C3, 25-D3 |
| USB3_OC0* | 7-B1, 17-D4, 25-B3 |
| USB3_OC1* | 7-B1, 17-D4, 25-B3 |
| USB3_P0- | 7-B1, 20-A2, 22-B1, 25-B3 |
| USB3_P0+ | 7-B1, 20-A3, 22-B1, 25-B3 |
| USB3_P1- | 7-B1, 20-C2, 22-B1, 25-B3 |
| USB3_P1+ | 7-B1, 20-C3, 22-B1, 25-B3 |
| USB5_PWR0 | 17-D3, 20-A2, 22-B1, 26-C3 |
| USB5_PWR1 | 17-C3, 20-C2, 22-B1, 26-C3 |
| VGA3_A0+UD1 | 18-D4, 19-D2, 26-C3 |
| VGA3_A0-UD0 | 18-D4, 19-C2, 26-C3 |
| VGA3_A1+UD3 | 18-D4, 19-D2, 26-C3 |
| VGA3_A1-UD2 | 18-D4, 19-D2, 26-C3 |
| VGA3_A2+UD5 | 18-D4, 19-D2, 26-C3 |
| VGA3_A2-UD4 | 18-D4, 19-D2, 26-C3 |
| VGA3_BKLTON* | 18-C2, 19-C2, 26-C3 |
| VGA3_BLUE | 14-B2, 18-C3, 20-A3, 25-A2 |
| VGA3_C | 14-C2, 18-C3, 20-A1, 25-A2 |
| VGA3_CAS0* | 18-C2, 19-B4, 26-C3 |

| Signal Name | Sheet Number - Location |
|---|---|
| VGA3_CKE | 18-C2, 19-C3, 19-C4, 26-C3 |
| VGA3_CLK+UD7 | 18-D4, 19-D2, 26-C3 |
| VGA3_CLK-UD6 | 18-D4, 19-D2, 26-C3 |
| VGA3_COMP | 18-C3, 20-A1, 25-A2 |
| VGA3_CS0 | 18-C2, 19-C4, 26-C3 |
| VGA3_DDCC | 14-B2, 18-B3, 20-C3, 25-A2 |
| VGA3_DDCD | 14-B2, 18-B3, 20-C3, 25-A2 |
| VGA3_DQM*(7:0) | 18-C2, 19-B4, 26-B4 |
| VGA3_DSF | 18-C2, 19-B4, 26-C3 |
| VGA3_GREEN | 14-B2, 18-C3, 20-A3, 25-A2 |
| VGA3_HSYNC | 14-B2, 18-C3, 20-C3, 25-A2 |
| VGA3_LCDD33 | 18-C4, 26-C3 |
| VGA3_LCDD34 | 18-C4, 26-C3 |
| VGA3_LCDVDDON | 18-C3, 19-B2, 26-C3 |
| VGA3_MA(10) | 18-C2, 18-D2, 19-A4, 19-D4, 26-B4 |
| VGA3_MAW | 19-A4, 19-C3, 19-C4, 26-A3 |
| VGA3_MAX | 19-A4, 19-D3, 19-D4, 26-A3 |
| VGA3_MAY | 19-A4, 19-D3, 19-D4, 26-A3 |
| VGA3_MAZ | 19-A4, 19-C3, 19-C4, 26-A3 |
| VGA3_MCK | 18-A3, 18-C2, 26-C3 |

| Signal Name | Sheet Number - Location |
|---|---|
| VGA3_MCKR | 18-A3, 19-B4, 26-B3 |
| VA3_MD(59) | 18-C1, 18-D1, 18-D3, 19-D4, 26-D2 |
| VGA3_RAS0* | 18-C2, 19-B4, 26-C3 |
| VGA3_RED | 14-B2, 18-C3, 20-A3, 25-A2 |
| VGA3_VSYNC | 14-B2, 18-C3, 20-C3, 25-A2 |
| VGA3_WE* | 18-C2, 19-B4, 26-C3 |
| VGA3_Y | 14-D2, 18-C3, 20-A1, 25-A2 |
| ZOM3_HREF | 9-B4, 18-C3, 25-A2 |
| ZOM3_LRCLK | 9-C4, 22-B4, 25-A2 |
| ZOM3_PCLK | 9-B4, 18-C3, 25-A2 |
| ZOM3_SCLK | 9-C4, 22-B4, 25-A2 |
| ZOM3_SDATA | 9-C4, 22-B4, 25-A2 |
| ZOM3_UV(0:7) | 9-C4, 18-D3, 25-D2 |
| ZOM3_VSYNC | 9-B4, 18-C3, 25-A2 |
| ZOM3_Y(0:7) | 9-B4, 18-D3, 25-D2 |
| | 25-C2 |
| | 25-D4 |
| | 5-C3, 5-C4, 25-D3 |
| | 24-D3, 25-B4 |
| | 25-B4 |

## 5-1-3 Sybmol Location

| LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B1 | sheet-14 | 2-D | B528 | sheet-23 | 4-C | C29 | sheet-17 | 1-B | C5 | sheet-14 | 2-C |
| B10 | sheet-14 | 4-C | B529 | sheet-23 | 4-C | C3 | sheet-14 | 2-C | C50 | sheet-2 | 2-C |
| B11 | sheet-2 | 4-D | B530 | sheet-23 | 4-C | C30 | sheet-19 | 1-B | C508 | sheet-14 | 2-B |
| B12 | sheet-22 | 3-B | B6 | sheet-14 | 2-B | C31 | sheet-21 | 3-D | C509 | sheet-14 | 1-B |
| B13 | sheet-19 | 1-C | B7 | sheet-14 | 2-B | C32 | sheet-19 | 1-A | C51 | sheet-2 | 2-C |
| B14 | sheet-23 | 4-C | B700 | sheet-30 | 3-B | C33 | sheet-22 | 3-B | C510 | sheet-14 | 1-B |
| B15 | sheet-23 | 4-C | B701 | sheet-30 | 3-B | C34 | sheet-7 | 2-A | C511 | sheet-14 | 1-B |
| B16 | sheet-23 | 4-C | B702 | sheet-28 | 2-D | C35 | sheet-2 | 1-C | C512 | sheet-17 | 2-B |
| B17 | sheet-23 | 4-C | B703 | sheet-28 | 2-D | C36 | sheet-2 | 3-C | C513 | sheet-17 | 1-B |
| B18 | sheet-23 | 4-C | B704 | sheet-28 | 2-D | C37 | sheet-2 | 1-C | C514 | sheet-17 | 2-B |
| B19 | sheet-23 | 4-C | B705 | sheet-30 | 4-C | C38 | sheet-15 | 2-D | C515 | sheet-17 | 1-B |
| B2 | sheet-14 | 2-C | B706 | sheet-30 | 4-C | C39 | sheet-22 | 3-C | C516 | sheet-17 | 1-B |
| B20 | sheet-17 | 3-C | B707 | sheet-30 | 4-C | C4 | sheet-14 | 2-D | C517 | sheet-17 | 1-B |
| B21 | sheet-17 | 3-D | B708 | sheet-30 | 4-C | C40 | sheet-2 | 1-B | C518 | sheet-18 | 4-B |
| B3 | sheet-14 | 4-C | B8 | sheet-14 | 1-B | C400 | sheet-28 | 4-C | C519 | sheet-19 | 1-C |
| B4 | sheet-14 | 4-C | B9 | sheet-17 | 1-B | C401 | sheet-28 | 4-C | C52 | sheet-2 | 1-C |
| B400 | sheet-28 | 1-D | C1 | sheet-8 | 1-A | C402 | sheet-29 | 2-D | C520 | sheet-19 | 1-C |
| B401 | sheet-28 | 1-D | C10 | sheet-14 | 3-C | C403 | sheet-29 | 1-D | C521 | sheet-7 | 2-A |
| B402 | sheet-28 | 1-D | C11 | sheet-14 | 3-C | C404 | sheet-29 | 1-D | C522 | sheet-7 | 2-A |
| B403 | sheet-28 | 1-C | C12 | sheet-14 | 3-C | C405 | sheet-29 | 1-D | C523 | sheet-7 | 2-A |
| B404 | sheet-28 | 1-C | C13 | sheet-14 | 3-C | C406 | sheet-30 | 3-C | C524 | sheet-23 | 1-B |
| B405 | sheet-28 | 1-C | C14 | sheet-14 | 3-C | C407 | sheet-28 | 1-D | C525 | sheet-15 | 3-B |
| B406 | sheet-29 | 4-C | C15 | sheet-14 | 3-C | C408 | sheet-28 | 1-C | C526 | sheet-7 | 4-A |
| B5 | sheet-14 | 2-B | C16 | sheet-14 | 3-C | C409 | sheet-29 | 2-D | C527 | sheet-7 | 4-A |
| B507 | sheet-18 | 4-B | C17 | sheet-14 | 4-D | C41 | sheet-2 | 1-B | C528 | sheet-6 | 2-D |
| B508 | sheet-17 | 1-B | C18 | sheet-14 | 3-C | C410 | sheet-29 | 2-B | C529 | sheet-12 | 4-C |
| B509 | sheet-17 | 1-B | C19 | sheet-14 | 4-D | C411 | sheet-29 | 4-B | C53 | sheet-15 | 2-D |
| B510 | sheet-17 | 1-B | C2 | sheet-14 | 2-C | C412 | sheet-29 | 4-B | C530 | sheet-12 | 4-C |
| B511 | sheet-17 | 1-B | C20 | sheet-14 | 4-D | C413 | sheet-29 | 4-C | C531 | sheet-16 | 2-A |
| B512 | sheet-18 | 4-B | C21 | sheet-14 | 3-D | C42 | sheet-2 | 2-B | C532 | sheet-16 | 3-D |
| B513 | sheet-18 | 4-C | C22 | sheet-14 | 3-D | C43 | sheet-2 | 3-C | C533 | sheet-15 | 3-B |
| B522 | sheet-2 | 3-B | C23 | sheet-14 | 1-B | C44 | sheet-2 | 1-C | C534 | sheet-17 | 4-C |
| B523 | sheet-2 | 4-D | C24 | sheet-14 | 1-B | C45 | sheet-2 | 1-C | C535 | sheet-17 | 4-C |
| B524 | sheet-23 | 4-C | C25 | sheet-14 | 1-B | C46 | sheet-2 | 3-C | C536 | sheet-23 | 1-B |
| B525 | sheet-23 | 4-C | C26 | sheet-14 | 1-B | C47 | sheet-2 | 1-C | C537 | sheet-22 | 2-C |
| B526 | sheet-23 | 4-C | C27 | sheet-23 | 3-B | C48 | sheet-2 | 2-C | C538 | sheet-22 | 2-C |
| B527 | sheet-23 | 4-C | C28 | sheet-23 | 3-B | C49 | sheet-2 | 2-C | C539 | sheet-22 | 2-C |

| LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| C54 | sheet-19 | 1-C | C728 | sheet-29 | 4-A | CB24 | sheet-10 | 1-B | CB503 | sheet-18 | 4-B |
| C55 | sheet-2 | 2-B | C729 | sheet-29 | 4-B | CB25 | sheet-10 | 1-B | CB504 | sheet-18 | 4-B |
| C56 | sheet-2 | 2-B | C730 | sheet-28 | 1-C | CB26 | sheet-10 | 2-B | CB505 | sheet-21 | 3-C |
| C57 | sheet-12 | 1-B | C731 | sheet-29 | 4-B | CB27 | sheet-21 | 2-D | CB506 | sheet-18 | 4-A |
| C58 | sheet-15 | 2-D | C732 | sheet-29 | 4-B | CB28 | sheet-10 | 1-B | CB507 | sheet-21 | 2-D |
| C59 | sheet-15 | 2-B | C733 | sheet-29 | 2-B | CB29 | sheet-9 | 1-B | CB508 | sheet-21 | 2-D |
| C6 | sheet-14 | 2-C | C734 | sheet-29 | 3-A | CB3 | sheet-21 | 1-D | CB509 | sheet-21 | 2-D |
| C60 | sheet-15 | 1-B | C735 | sheet-29 | 2-C | CB30 | sheet-9 | 1-B | CB51 | sheet-21 | 1-D |
| C7 | sheet-14 | 2-C | C736 | sheet-29 | 2-D | CB31 | sheet-9 | 1-B | CB510 | sheet-18 | 3-A |
| C700 | sheet-28 | 3-C | C737 | sheet-29 | 3-B | CB32 | sheet-21 | 3-D | CB511 | sheet-18 | 3-A |
| C701 | sheet-28 | 1-B | C739 | sheet-30 | 3-B | CB33 | sheet-21 | 1-D | CB512 | sheet-21 | 3-D |
| C702 | sheet-30 | 3-B | C740 | sheet-30 | 4-C | CB34 | sheet-21 | 1-D | CB513 | sheet-18 | 1-B |
| C703 | sheet-30 | 3-B | C741 | sheet-28 | 1-D | CB35 | sheet-19 | 3-B | CB514 | sheet-1 | 3-D |
| C704 | sheet-30 | 3-B | C742 | sheet-28 | 3-A | CB36 | sheet-13 | 2-B | CB515 | sheet-21 | 4-D |
| C705 | sheet-28 | 2-D | C743 | sheet-29 | 3-A | CB37 | sheet-13 | 1-B | CB516 | sheet-18 | 4-A |
| C706 | sheet-28 | 2-D | C8 | sheet-21 | 3-C | CB38 | sheet-13 | 2-B | CB517 | sheet-18 | 4-A |
| C707 | sheet-30 | 3-B | C9 | sheet-17 | 3-D | CB39 | sheet-10 | 1-B | CB518 | sheet-18 | 1-B |
| C708 | sheet-30 | 3-B | CB1 | sheet-21 | 1-D | CB4 | sheet-21 | 1-D | CB519 | sheet-18 | 1-B |
| C709 | sheet-28 | 2-D | CB10 | sheet-9 | 1-B | CB40 | sheet-21 | 4-D | CB52 | sheet-21 | 2-D |
| C710 | sheet-28 | 2-D | CB100 | sheet-5 | 3-A | CB400 | sheet-28 | 2-B | CB520 | sheet-18 | 3-A |
| C711 | sheet-30 | 2-D | CB101 | sheet-5 | 3-A | CB401 | sheet-28 | 2-B | CB521 | sheet-18 | 4-A |
| C712 | sheet-28 | 3-C | CB102 | sheet-21 | 4-D | CB402 | sheet-29 | 1-B | CB522 | sheet-18 | 1-B |
| C713 | sheet-30 | 3-C | CB103 | sheet-12 | 1-A | CB403 | sheet-29 | 4-A | CB523 | sheet-21 | 3-D |
| C714 | sheet-30 | 3-C | CB11 | sheet-9 | 1-B | CB41 | sheet-10 | 1-B | CB524 | sheet-21 | 2-D |
| C715 | sheet-30 | 2-C | CB12 | sheet-13 | 1-B | CB42 | sheet-5 | 3-A | CB525 | sheet-21 | 3-D |
| C716 | sheet-30 | 4-D | CB13 | sheet-21 | 2-C | CB43 | sheet-21 | 4-D | CB526 | sheet-22 | 2-D |
| C717 | sheet-30 | 3-C | CB14 | sheet-21 | 3-C | CB44 | sheet-21 | 2-D | CB527 | sheet-21 | 2-D |
| C718 | sheet-30 | 2-C | CB15 | sheet-21 | 3-C | CB45 | sheet-21 | 4-D | CB528 | sheet-21 | 2-D |
| C719 | sheet-30 | 1-C | CB16 | sheet-21 | 4-C | CB46 | sheet-9 | 1-B | CB529 | sheet-21 | 2-D |
| C720 | sheet-28 | 1-D | CB17 | sheet-10 | 2-B | CB47 | sheet-9 | 1-B | CB53 | sheet-21 | 2-D |
| C721 | sheet-28 | 1-C | CB18 | sheet-21 | 3-C | CB48 | sheet-21 | 3-D | CB530 | sheet-21 | 3-C |
| C722 | sheet-29 | 2-C | CB19 | sheet-21 | 3-C | CB49 | sheet-21 | 3-D | CB531 | sheet-21 | 2-D |
| C723 | sheet-29 | 2-C | CB2 | sheet-9 | 1-B | CB5 | sheet-21 | 1-D | CB532 | sheet-21 | 2-D |
| C724 | sheet-29 | 1-C | CB20 | sheet-21 | 3-D | CB50 | sheet-9 | 1-B | CB533 | sheet-21 | 2-D |
| C725 | sheet-29 | 1-C | CB21 | sheet-21 | 3-D | CB500 | sheet-21 | 2-D | CB534 | sheet-4 | 1-B |
| C726 | sheet-28 | 1-C | CB22 | sheet-19 | 2-B | CB501 | sheet-23 | 2-B | CB535 | sheet-6 | 2-A |
| C727 | sheet-28 | 1-C | CB23 | sheet-21 | 4-D | CB502 | sheet-18 | 4-B | CB536 | sheet-6 | 1-A |

| LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CB537 | sheet-6 | 1-A | CB570 | sheet-2 | 3-D | CB68 | sheet-2 | 4-D | CB93 | sheet-12 | 1-A |
| CB538 | sheet-6 | 1-A | CB571 | sheet-2 | 3-D | CB69 | sheet-22 | 2-A | CB94 | sheet-21 | 4-D |
| CB539 | sheet-6 | 1-A | CB572 | sheet-2 | 3-D | CB7 | sheet-21 | 4-C | CB95 | sheet-21 | 4-D |
| CB54 | sheet-21 | 2-D | CB573 | sheet-22 | 2-A | CB70 | sheet-22 | 3-A | CB96 | sheet-5 | 3-A |
| CB540 | sheet-21 | 3-D | CB574 | sheet-24 | 2-A | CB700 | sheet-28 | 1-B | CB97 | sheet-21 | 3-D |
| CB541 | sheet-6 | 1-A | CB575 | sheet-21 | 3-C | CB701 | sheet-29 | 3-C | CB98 | sheet-21 | 4-D |
| CB542 | sheet-21 | 2-D | CB576 | sheet-2 | 3-B | CB702 | sheet-29 | 3-C | CB99 | sheet-21 | 2-D |
| CB543 | sheet-22 | 2-C | CB577 | sheet-4 | 2-A | CB703 | sheet-29 | 3-C | CS1 | sheet-21 | 3-B |
| CB544 | sheet-2 | 3-B | CB578 | sheet-21 | 3-D | CB704 | sheet-29 | 3-C | CS10 | sheet-21 | 2-B |
| CB545 | sheet-2 | 3-B | CB579 | sheet-21 | 3-D | CB705 | sheet-30 | 2-B | CS11 | sheet-21 | 3-B |
| CB546 | sheet-2 | 3-B | CB58 | sheet-21 | 4-D | CB706 | sheet-29 | 2-A | CS12 | sheet-21 | 3-B |
| CB547 | sheet-2 | 3-B | CB580 | sheet-21 | 3-D | CB707 | sheet-29 | 3-A | CS13 | sheet-21 | 3-B |
| CB548 | sheet-2 | 3-B | CB581 | sheet-16 | 3-D | CB708 | sheet-29 | 4-A | CS14 | sheet-21 | 3-B |
| CB549 | sheet-2 | 3-B | CB582 | sheet-24 | 2-A | CB71 | sheet-21 | 4-D | CS15 | sheet-21 | 3-B |
| CB55 | sheet-22 | 1-D | CB583 | sheet-21 | 3-C | CB72 | sheet-5 | 2-A | CS16 | sheet-21 | 4-B |
| CB550 | sheet-2 | 3-B | CB584 | sheet-21 | 3-C | CB73 | sheet-4 | 1-C | CS17 | sheet-21 | 3-B |
| CB551 | sheet-4 | 2-B | CB585 | sheet-24 | 2-A | CB74 | sheet-4 | 1-C | CS2 | sheet-21 | 3-B |
| CB552 | sheet-21 | 3-C | CB586 | sheet-21 | 4-C | CB75 | sheet-12 | 1-B | CS3 | sheet-21 | 2-B |
| CB553 | sheet-4 | 1-B | CB587 | sheet-21 | 3-C | CB76 | sheet-24 | 2-A | CS4 | sheet-21 | 3-B |
| CB554 | sheet-4 | 2-B | CB588 | sheet-21 | 3-C | CB77 | sheet-24 | 2-A | CS5 | sheet-21 | 3-B |
| CB555 | sheet-4 | 1-B | CB589 | sheet-21 | 3-C | CB78 | sheet-22 | 3-A | CS500 | sheet-21 | 3-B |
| CB556 | sheet-21 | 3-D | CB59 | sheet-21 | 3-D | CB79 | sheet-22 | 1-D | CS501 | sheet-21 | 4-B |
| CB557 | sheet-4 | 1-B | CB590 | sheet-21 | 3-C | CB8 | sheet-21 | 3-D | CS502 | sheet-21 | 3-B |
| CB558 | sheet-6 | 2-A | CB591 | sheet-21 | 3-C | CB80 | sheet-5 | 2-A | CS503 | sheet-21 | 3-B |
| CB559 | sheet-6 | 1-A | CB592 | sheet-21 | 4-C | CB81 | sheet-21 | 4-D | CS504 | sheet-21 | 3-B |
| CB56 | sheet-22 | 2-A | CB593 | sheet-17 | 3-C | CB82 | sheet-21 | 3-D | CS505 | sheet-21 | 3-B |
| CB560 | sheet-6 | 1-A | CB594 | sheet-17 | 3-D | CB83 | sheet-5 | 2-A | CS506 | sheet-21 | 2-B |
| CB561 | sheet-6 | 2-A | CB595 | sheet-12 | 4-A | CB84 | sheet-21 | 4-C | CS507 | sheet-21 | 2-B |
| CB562 | sheet-6 | 1-A | CB6 | sheet-23 | 2-B | CB85 | sheet-21 | 3-C | CS508 | sheet-21 | 2-B |
| CB563 | sheet-2 | 3-D | CB60 | sheet-5 | 2-A | CB86 | sheet-21 | 3-C | CS6 | sheet-21 | 3-B |
| CB564 | sheet-2 | 3-D | CB61 | sheet-5 | 3-A | CB87 | sheet-21 | 4-C | CS7 | sheet-21 | 3-B |
| CB565 | sheet-2 | 4-D | CB62 | sheet-5 | 3-A | CB88 | sheet-21 | 4-D | CS8 | sheet-21 | 3-B |
| CB566 | sheet-2 | 3-D | CB63 | sheet-21 | 2-D | CB89 | sheet-21 | 3-C | CS9 | sheet-21 | 3-B |
| CB567 | sheet-2 | 3-D | CB64 | sheet-22 | 3-A | CB9 | sheet-9 | 1-B | CT1 | sheet-23 | 3-B |
| CB568 | sheet-2 | 3-D | CB65 | sheet-5 | 2-A | CB90 | sheet-21 | 3-C | CT10 | sheet-9 | 1-B |
| CB569 | sheet-2 | 3-D | CB66 | sheet-21 | 3-D | CB91 | sheet-21 | 2-D | CT11 | sheet-21 | 2-C |
| CB57 | sheet-21 | 4-D | CB67 | sheet-2 | 3-D | CB92 | sheet-5 | 2-A | CT12 | sheet-10 | 1-B |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| CT13 | sheet-10 | 1-B | CT505 | sheet-6 | 2-A | FD7 | sheet-21 | 1-B | MT16 | sheet-21 | 2-A |
| CT14 | sheet-9 | 1-B | CT506 | sheet-2 | 4-D | FD8 | sheet-21 | 1-B | MT17 | sheet-21 | 1-A |
| CT15 | sheet-5 | 2-A | CT507 | sheet-2 | 3-B | J1 | sheet-5 | 3-A | MT18 | sheet-21 | 4-A |
| CT16 | sheet-5 | 3-A | CT508 | sheet-6 | 2-A | J2 | sheet-5 | 1-A | MT19 | sheet-21 | 1-A |
| CT17 | sheet-2 | 4-D | CT509 | sheet-4 | 2-A | J3 | sheet-22 | 1-B | MT2 | sheet-21 | 3-A |
| CT18 | sheet-4 | 2-B | CT510 | sheet-6 | 2-D | J400 | sheet-29 | 4-C | MT3 | sheet-21 | 3-A |
| CT19 | sheet-4 | 1-C | CT511 | sheet-21 | 1-C | J500 | sheet-14 | 1-C | MT4 | sheet-21 | 3-A |
| CT2 | sheet-21 | 1-C | CT512 | sheet-21 | 1-C | J501 | sheet-14 | 3-C | MT8 | sheet-21 | 4-A |
| CT20 | sheet-4 | 2-C | CT513 | sheet-21 | 2-C | J502 | sheet-14 | 1-B | Q1 | sheet-8 | 1-A |
| CT21 | sheet-4 | 1-C | CT6 | sheet-9 | 1-B | J503 | sheet-14 | 3-A | Q2 | sheet-19 | 1-A |
| CT22 | sheet-4 | 2-C | CT7 | sheet-10 | 2-B | J504 | sheet-17 | 1-B | Q3 | sheet-19 | 1-A |
| CT23 | sheet-4 | 2-C | CT700 | sheet-28 | 3-A | J505 | sheet-20 | 1-B | Q4 | sheet-19 | 1-B |
| CT24 | sheet-12 | 1-B | CT8 | sheet-10 | 2-C | J506 | sheet-8 | 1-A | Q5 | sheet-12 | 1-B |
| CT25 | sheet-22 | 2-D | CT9 | sheet-10 | 1-C | J507 | sheet-23 | 2-C | Q500 | sheet-20 | 3-A |
| CT26 | sheet-22 | 1-D | D1 | sheet-8 | 2-D | J508 | sheet-10 | 3-A | Q501 | sheet-8 | 2-B |
| CT27 | sheet-22 | 1-D | D2 | sheet-8 | 2-D | J509 | sheet-19 | 1-C | Q502 | sheet-16 | 2-D |
| CT28 | sheet-17 | 3-C | D3 | sheet-8 | 1-B | J510 | sheet-3 | 4-A | Q503 | sheet-16 | 1-D |
| CT29 | sheet-17 | 3-D | D4 | sheet-8 | 2-C | J511 | sheet-24 | 3-A | Q504 | sheet-16 | 3-D |
| CT3 | sheet-23 | 2-B | D5 | sheet-16 | 3-C | J512 | sheet-24 | 3-A | Q505 | sheet-16 | 4-D |
| CT30 | sheet-12 | 1-A | D500 | sheet-14 | 2-B | J513 | sheet-12 | 4-C | Q506 | sheet-16 | 2-B |
| CT31 | sheet-4 | 2-B | D501 | sheet-14 | 2-B | J514 | sheet-23 | 4-A | Q507 | sheet-17 | 4-B |
| CT4 | sheet-21 | 1-C | D502 | sheet-8 | 1-C | J515 | sheet-24 | 3-B | Q508 | sheet-17 | 4-B |
| CT400 | sheet-28 | 1-B | D503 | sheet-16 | 3-D | J516 | sheet-17 | 1-C | Q509 | sheet-20 | 4-B |
| CT401 | sheet-28 | 1-B | D504 | sheet-16 | 3-D | J517 | sheet-6 | 2-D | Q6 | sheet-11 | 4-B |
| CT402 | sheet-29 | 2-C | D505 | sheet-6 | 2-D | J518 | sheet-23 | 3-C | Q7 | sheet-12 | 1-A |
| CT403 | sheet-29 | 4-B | D506 | sheet-6 | 2-D | J519 | sheet-12 | 4-A | R1 | sheet-14 | 2-C |
| CT404 | sheet-29 | 3-C | D507 | sheet-6 | 2-D | J520 | sheet-17 | 3-B | R10 | sheet-6 | 1-D |
| CT405 | sheet-28 | 3-D | D6 | sheet-16 | 4-C | J521 | sheet-22 | 1-A | R100 | sheet-3 | 4-A |
| CT406 | sheet-28 | 3-D | D7 | sheet-16 | 3-C | J522 | sheet-23 | 2-B | R101 | sheet-6 | 1-D |
| CT407 | sheet-28 | 3-C | D8 | sheet-16 | 3-B | J700 | sheet-30 | 4-B | R102 | sheet-6 | 1-D |
| CT408 | sheet-29 | 4-B | F1 | sheet-17 | 1-B | J701 | sheet-28 | 2-D | R103 | sheet-6 | 1-D |
| CT409 | sheet-29 | 1-B | FD1 | sheet-21 | 1-B | J702 | sheet-30 | 4-C | R104 | sheet-18 | 2-D |
| CT5 | sheet-9 | 1-B | FD2 | sheet-21 | 1-B | J703 | sheet-28 | 1-D | R105 | sheet-7 | 2-A |
| CT501 | sheet-18 | 4-B | FD3 | sheet-21 | 1-B | J704 | sheet-28 | 1-C | R106 | sheet-3 | 4-C |
| CT502 | sheet-18 | 4-B | FD4 | sheet-21 | 1-B | LED700 | sheet-28 | 3-A | R107 | sheet-3 | 4-C |
| CT503 | sheet-21 | 1-C | FD5 | sheet-21 | 1-B | MT11 | sheet-21 | 2-A | R108 | sheet-3 | 4-C |
| CT504 | sheet-21 | 1-C | FD6 | sheet-21 | 1-B | MT15 | sheet-21 | 2-A | R109 | sheet-3 | 4-C |

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| R11 | sheet-6 | 1-C | R143 | sheet-2 | 2-D | R177 | sheet-5 | 3-C | R30 | sheet-20 | 3-A |
| R110 | sheet-3 | 4-C | R144 | sheet-15 | 2-C | R178 | sheet-5 | 3-C | R31 | sheet-19 | 3-C |
| R111 | sheet-7 | 2-B | R145 | sheet-15 | 3-D | R179 | sheet-5 | 2-C | R32 | sheet-8 | 3-A |
| R112 | sheet-7 | 2-B | R146 | sheet-15 | 1-C | R18 | sheet-6 | 1-C | R33 | sheet-18 | 3-A |
| R113 | sheet-7 | 2-B | R147 | sheet-19 | 2-C | R180 | sheet-5 | 2-C | R34 | sheet-14 | 4-B |
| R114 | sheet-2 | 2-D | R148 | sheet-22 | 3-C | R181 | sheet-5 | 4-C | R35 | sheet-10 | 1-C |
| R115 | sheet-2 | 2-D | R149 | sheet-22 | 4-B | R182 | sheet-11 | 3-C | R36 | sheet-10 | 1-C |
| R116 | sheet-16 | 2-C | R15 | sheet-6 | 1-D | R183 | sheet-12 | 1-D | R37 | sheet-9 | 2-D |
| R117 | sheet-8 | 1-D | R150 | sheet-2 | 2-B | R184 | sheet-4 | 2-D | R38 | sheet-10 | 2-D |
| R118 | sheet-8 | 2-D | R151 | sheet-2 | 2-B | R185 | sheet-4 | 2-D | R39 | sheet-10 | 2-D |
| R119 | sheet-8 | 1-D | R152 | sheet-2 | 3-B | R186 | sheet-4 | 2-C | R4 | sheet-14 | 2-B |
| R12 | sheet-6 | 1-D | R153 | sheet-2 | 3-B | R187 | sheet-4 | 2-D | R40 | sheet-10 | 2-C |
| R120 | sheet-22 | 2-C | R154 | sheet-12 | 3-C | R188 | sheet-4 | 2-D | R400 | sheet-28 | 3-D |
| R121 | sheet-22 | 3-B | R155 | sheet-12 | 3-C | R189 | sheet-4 | 2-D | R401 | sheet-28 | 4-C |
| R122 | sheet-2 | 3-B | R156 | sheet-12 | 1-C | R19 | sheet-6 | 1-D | R402 | sheet-28 | 3-D |
| R123 | sheet-2 | 2-B | R157 | sheet-12 | 2-B | R190 | sheet-12 | 3-B | R403 | sheet-28 | 4-C |
| R124 | sheet-2 | 2-B | R158 | sheet-15 | 3-D | R191 | sheet-12 | 3-B | R404 | sheet-29 | 2-D |
| R125 | sheet-2 | 2-B | R159 | sheet-15 | 3-C | R192 | sheet-6 | 1-C | R405 | sheet-29 | 2-D |
| R126 | sheet-2 | 2-B | R16 | sheet-6 | 1-C | R193 | sheet-11 | 3-B | R406 | sheet-29 | 3-C |
| R127 | sheet-3 | 4-C | R160 | sheet-15 | 3-C | R194 | sheet-11 | 4-B | R407 | sheet-28 | 3-D |
| R128 | sheet-3 | 4-C | R161 | sheet-15 | 3-C | R195 | sheet-16 | 3-C | R408 | sheet-28 | 3-D |
| R129 | sheet-7 | 2-B | R162 | sheet-15 | 3-C | R196 | sheet-16 | 3-B | R409 | sheet-28 | 3-D |
| R13 | sheet-6 | 1-D | R163 | sheet-15 | 3-C | R197 | sheet-7 | 2-B | R41 | sheet-10 | 2-C |
| R130 | sheet-7 | 4-B | R164 | sheet-15 | 3-C | R198 | sheet-7 | 2-B | R410 | sheet-29 | 1-B |
| R131 | sheet-7 | 4-A | R165 | sheet-15 | 3-C | R199 | sheet-12 | 2-A | R411 | sheet-29 | 2-D |
| R132 | sheet-6 | 1-C | R166 | sheet-8 | 1-D | R2 | sheet-14 | 2-C | R412 | sheet-29 | 2-C |
| R133 | sheet-2 | 4-C | R167 | sheet-15 | 2-B | R20 | sheet-6 | 1-C | R413 | sheet-29 | 4-B |
| R134 | sheet-2 | 2-D | R168 | sheet-15 | 2-D | R21 | sheet-10 | 1-C | R414 | sheet-29 | 2-B |
| R135 | sheet-2 | 2-C | R169 | sheet-15 | 2-D | R22 | sheet-19 | 1-B | R415 | sheet-28 | 3-C |
| R136 | sheet-2 | 2-D | R17 | sheet-9 | 2-A | R23 | sheet-19 | 2-B | R416 | sheet-29 | 2-B |
| R137 | sheet-2 | 3-C | R170 | sheet-15 | 1-B | R24 | sheet-18 | 3-C | R418 | sheet-29 | 4-C |
| R138 | sheet-2 | 2-C | R171 | sheet-22 | 1-D | R25 | sheet-20 | 1-C | R42 | sheet-19 | 1-B |
| R139 | sheet-2 | 2-D | R172 | sheet-22 | 1-D | R26 | sheet-6 | 1-D | R420 | sheet-19 | 2-D |
| R14 | sheet-6 | 1-D | R173 | sheet-5 | 4-C | R27 | sheet-19 | 3-A | R421 | sheet-19 | 2-D |
| R140 | sheet-2 | 2-D | R174 | sheet-5 | 1-C | R28 | sheet-19 | 3-A | R422 | sheet-19 | 2-D |
| R141 | sheet-2 | 2-D | R175 | sheet-5 | 1-C | R29 | sheet-19 | 3-A | R423 | sheet-19 | 2-D |
| R142 | sheet-2 | 2-D | R176 | sheet-8 | 1-B | R3 | sheet-14 | 2-B | R43 | sheet-19 | 3-A |

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| R44 | sheet-18 | 2-A | R54 | sheet-10 | 2-D | R576 | sheet-22 | 2-C | R609 | sheet-12 | 3-D |
| R45 | sheet-19 | 3-A | R540 | sheet-18 | 4-C | R577 | sheet-22 | 2-C | R61 | sheet-10 | 2-C |
| R46 | sheet-19 | 3-A | R542 | sheet-19 | 4-C | R578 | sheet-22 | 4-B | R610 | sheet-12 | 4-C |
| R47 | sheet-19 | 3-A | R543 | sheet-19 | 4-B | R579 | sheet-22 | 3-C | R611 | sheet-16 | 2-B |
| R48 | sheet-19 | 3-A | R544 | sheet-19 | 4-A | R58 | sheet-10 | 2-D | R612 | sheet-16 | 2-B |
| R49 | sheet-16 | 2-C | R545 | sheet-19 | 4-A | R580 | sheet-3 | 4-B | R613 | sheet-16 | 2-B |
| R5 | sheet-14 | 2-B | R546 | sheet-19 | 4-A | R581 | sheet-3 | 4-B | R614 | sheet-15 | 1-C |
| R50 | sheet-6 | 1-D | R548 | sheet-19 | 4-A | R582 | sheet-3 | 4-A | R615 | sheet-6 | 1-D |
| R51 | sheet-6 | 1-C | R55 | sheet-10 | 2-D | R583 | sheet-7 | 4-D | R616 | sheet-6 | 1-C |
| R514 | sheet-14 | 2-B | R550 | sheet-6 | 1-C | R584 | sheet-7 | 4-B | R617 | sheet-24 | 3-C |
| R515 | sheet-14 | 2-B | R551 | sheet-6 | 1-C | R585 | sheet-6 | 1-C | R618 | sheet-24 | 3-B |
| R516 | sheet-14 | 2-B | R552 | sheet-13 | 3-B | R586 | sheet-6 | 1-D | R619 | sheet-7 | 4-D |
| R517 | sheet-14 | 2-B | R553 | sheet-13 | 3-B | R587 | sheet-6 | 1-C | R62 | sheet-10 | 2-C |
| R518 | sheet-14 | 2-B | R554 | sheet-6 | 1-C | R588 | sheet-7 | 4-D | R620 | sheet-23 | 4-D |
| R519 | sheet-14 | 2-B | R555 | sheet-6 | 1-C | R589 | sheet-2 | 4-C | R621 | sheet-24 | 2-B |
| R52 | sheet-8 | 2-C | R556 | sheet-6 | 1-D | R59 | sheet-10 | 2-D | R622 | sheet-8 | 2-B |
| R520 | sheet-19 | 3-A | R557 | sheet-3 | 4-A | R590 | sheet--7 | 2-A | R623 | sheet-8 | 2-C |
| R521 | sheet-15 | 3-C | R558 | sheet-6 | 1-D | R591 | sheet-12 | 3-D | R624 | sheet-17 | 4-D |
| R522 | sheet-19 | 3-A | R559 | sheet-8 | 1-C | R592 | sheet-2 | 3-C | R625 | sheet-17 | 4-D |
| R523 | sheet-19 | 3-A | R56 | sheet-10 | 2-D | R593 | sheet-16 | 4-D | R626 | sheet-23 | 3-D |
| R524 | sheet-19 | 3-A | R560 | sheet-7 | 2-B | R594 | sheet-16 | 3-D | R627 | sheet-12 | 4-B |
| R525 | sheet-19 | 3-A | R561 | sheet-7 | 2-B | R595 | sheet-16 | 4-D | R628 | sheet-8 | 2-C |
| R526 | sheet-18 | 3-B | R562 | sheet-6 | 4-B | R596 | sheet-16 | 4-D | R629 | sheet-8 | 2-C |
| R527 | sheet-20 | 4-A | R563 | sheet-7 | 4-D | R597 | sheet-16 | 2-C | R63 | sheet-10 | 2-C |
| R528 | sheet-3 | 4-A | R564 | sheet-7 | 4-D | R598 | sheet-12 | 4-B | R630 | sheet-12 | 4-B |
| R529 | sheet-3 | 4-A | R565 | sheet-7 | 2-B | R599 | sheet-7 | 4-A | R631 | sheet-12 | 3-B |
| R53 | sheet-7 | 4-D | R566 | sheet-7 | 2-B | R6 | sheet-14 | 4-B | R632 | sheet-12 | 1-D |
| R530 | sheet-18 | 1-C | R567 | sheet-7 | 2-A | R60 | sheet-10 | 2-D | R633 | sheet-15 | 3-C |
| R531 | sheet-18 | 4-B | R568 | sheet-7 | 2-B | R600 | sheet-6 | 1-C | R634 | sheet-12 | 1-D |
| R532 | sheet-18 | 4-B | R569 | sheet-6 | 1-D | R601 | sheet-6 | 1-C | R635 | sheet-17 | 4-B |
| R533 | sheet-19 | 3-A | R57 | sheet-10 | 2-D | R602 | sheet-6 | 1-C | R636 | sheet-17 | 4-B |
| R534 | sheet-10 | 2-A | R570 | sheet-7 | 2-A | R603 | sheet-6 | 2-D | R637 | sheet-17 | 4-B |
| R535 | sheet-10 | 2-A | R571 | sheet-16 | 2-D | R604 | sheet-6 | 2-D | R638 | sheet-22 | 1-C |
| R536 | sheet-18 | 1-C | R572 | sheet-16 | 2-D | R605 | sheet-6 | 2-D | R639 | sheet-22 | 1-C |
| R537 | sheet-18 | 4-B | R573 | sheet-16 | 2-D | R606 | sheet-6 | 1-C | R64 | sheet-10 | 2-C |
| R538 | sheet-18 | 4-C | R574 | sheet-16 | 1-D | R607 | sheet-12 | 4-D | R640 | sheet-22 | 1-C |
| R539 | sheet-18 | 3-A | R575 | sheet-22 | 2-C | R608 | sheet-12 | 4-D | R65 | sheet-10 | 2-C |

| LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| R650 | sheet-19 | 1-D | R717 | sheet-29 | 2-C | R94 | sheet-10 | 1-C | RA502-4 | sheet-4 | 4-C |
| R651 | sheet-19 | 1-D | R718 | sheet-28 | 1-C | R95 | sheet-10 | 1-C | RA503-1 | sheet-4 | 3-C |
| R652 | sheet-19 | 1-D | R719 | sheet-29 | 2-A | R96 | sheet-10 | 2-C | RA503-2 | sheet-4 | 3-C |
| R653 | sheet-19 | 1-D | R72 | sheet-18 | 1-D | R97 | sheet-10 | 2-C | RA503-3 | sheet-4 | 3-C |
| R654 | sheet-19 | 1-D | R720 | sheet-30 | 3-B | R98 | sheet-6 | 1-D | RA503-4 | sheet-4 | 3-C |
| R655 | sheet-19 | 1-D | R721 | sheet-30 | 3-B | R99 | sheet-3 | 4-A | RA504-1 | sheet-4 | 4-C |
| R656 | sheet-19 | 1-C | R722 | sheet-28 | 2-A | RA1-1 | sheet-4 | 3-C | RA504-2 | sheet-4 | 4-C |
| R657 | sheet-19 | 1-C | R723 | sheet-28 | 3-B | RA1-2 | sheet-4 | 4-C | RA504-3 | sheet-4 | 3-C |
| R658 | sheet-8 | 1-A | R724 | sheet-28 | 3-B | RA1-3 | sheet-4 | 3-C | RA504-4 | sheet-4 | 4-C |
| R659 | sheet-24 | 2-B | R73 | sheet-18 | 1-D | RA1-4 | sheet-4 | 4-C | RA505-1 | sheet-4 | 3-C |
| R66 | sheet-19 | 1-A | R74 | sheet-18 | 1-D | RA2-1 | sheet-4 | 4-C | RA505-2 | sheet-4 | 3-C |
| R660 | sheet-19 | 4-A | R740 | sheet-29 | 3-A | RA2-2 | sheet-4 | 4-C | RA505-3 | sheet-4 | 4-C |
| R661 | sheet-19 | 4-A | R741 | sheet-29 | 3-A | RA2-3 | sheet-4 | 4-C | RA505-4 | sheet-4 | 4-C |
| R662 | sheet-19 | 4-A | R742 | sheet-24 | 2-C | RA2-4 | sheet-4 | 3-C | RA506-1 | sheet-4 | 4-B |
| R67 | sheet-19 | 2-A | R743 | sheet-13 | 3-B | RA3-1 | sheet-12 | 4-D | RA506-2 | sheet-4 | 4-B |
| R68 | sheet-20 | 4-C | R744 | sheet-28 | 2-C | RA3-2 | sheet-12 | 3-D | RA506-3 | sheet-4 | 3-B |
| R69 | sheet-18 | 2-A | R75 | sheet-18 | 1-C | RA3-3 | sheet-12 | 4-D | RA506-4 | sheet-4 | 3-B |
| R7 | sheet-14 | 4-A | R76 | sheet-10 | 1-B | RA3-4 | sheet-12 | 3-D | RA507-1 | sheet-4 | 4-B |
| R70 | sheet-18 | 1-C | R77 | sheet-10 | 1-B | RA4-1 | sheet-12 | 4-D | RA507-2 | sheet-4 | 4-B |
| R700 | sheet-30 | 2-D | R78 | sheet-10 | 1-C | RA4-2 | sheet-12 | 3-D | RA507-3 | sheet-4 | 4-B |
| R701 | sheet-29 | 2-B | R79 | sheet-10 | 1-C | RA4-3 | sheet-12 | 3-D | RA507-4 | sheet-4 | 3-B |
| R702 | sheet-30 | 3-B | R8 | sheet-6 | 1-D | RA4-4 | sheet-12 | 3-D | RA508-1 | sheet-4 | 3-B |
| R703 | sheet-30 | 3-B | R80 | sheet-6 | 1-D | RA5-1 | sheet-12 | 3-C | RA508-2 | sheet-4 | 4-B |
| R704 | sheet-30 | 3-B | R81 | sheet-10 | 2-D | RA5-2 | sheet-12 | 3-C | RA508-3 | sheet-4 | 4-B |
| R705 | sheet-28 | 2-D | R82 | sheet-10 | 2-D | RA5-3 | sheet-12 | 3-D | RA508-4 | sheet-4 | 4-B |
| R706 | sheet-30 | 3-C | R83 | sheet-10 | 2-D | RA5-4 | sheet-12 | 3-D | RA509-1 | sheet-4 | 3-B |
| R707 | sheet-30 | 3-C | R84 | sheet-10 | 2-D | RA500-1 | sheet-4 | 3-C | RA509-2 | sheet-4 | 3-B |
| R708 | sheet-30 | 2-C | R85 | sheet-10 | 2-C | RA500-2 | sheet-4 | 3-C | RA509-3 | sheet-4 | 3-B |
| R709 | sheet-30 | 3-C | R86 | sheet-10 | 2-C | RA500-3 | sheet-4 | 4-C | RA509-4 | sheet-4 | 3-B |
| R71 | sheet-18 | 1-C | R87 | sheet-10 | 2-C | RA500-4 | sheet-4 | 4-C | RA510-1 | sheet-4 | 4-B |
| R710 | sheet-30 | 2-C | R88 | sheet-10 | 2-C | RA501-1 | sheet-4 | 3-C | RA510-2 | sheet-4 | 4-B |
| R711 | sheet-30 | 2-C | R89 | sheet-19 | 4-C | RA501-2 | sheet-4 | 4-C | RA510-3 | sheet-4 | 3-B |
| R712 | sheet-30 | 3-C | R9 | sheet-6 | 1-D | RA501-3 | sheet-4 | 3-C | RA510-4 | sheet-4 | 4-B |
| R713 | sheet-30 | 3-C | R90 | sheet-10 | 1-B | RA501-4 | sheet-4 | 4-C | RA511-1 | sheet-4 | 3-B |
| R714 | sheet-28 | 1-D | R91 | sheet-10 | 1-B | RA502-1 | sheet-4 | 3-C | RA511-2 | sheet-4 | 3-B |
| R715 | sheet-29 | 1-C | R92 | sheet-10 | 1-C | RA502-2 | sheet-4 | 4-C | RA511-3 | sheet-4 | 4-B |
| R716 | sheet-29 | 2-C | R93 | sheet-9 | 2-D | RA502-3 | sheet-4 | 3-C | RA511-4 | sheet-4 | 3-B |

| LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND | LOC | SHEET# | STAND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RA512-1 | sheet-4 | 4-B | RA519-3 | sheet-12 | 4-B | TH500 | sheet-23 | 3-D | U25-4 | sheet-8 | 1-C |
| RA512-2 | sheet-4 | 3-B | RA519-4 | sheet-12 | 3-B | U1 | sheet-14 | 4-D | U26 | sheet-11 | 4-B |
| RA512-3 | sheet-4 | 4-B | RA520-1 | sheet-12 | 4-B | U10 | sheet-10 | 2-B | U27 | sheet-5 | 4-A |
| RA512-4 | sheet-4 | 3-B | RA520-2 | sheet-12 | 3-B | U11 | sheet-19 | 3-B | U3 | sheet-19 | 1-B |
| RA513-1 | sheet-4 | 4-B | RA520-3 | sheet-12 | 4-B | U12 | sheet-6 | 4-A | U4 | sheet-19 | 2-C |
| RA513-2 | sheet-4 | 4-B | RA520-4 | sheet-12 | 3-B | U13 | sheet-6 | 4-A | U400 | sheet-28 | 1-B |
| RA513-3 | sheet-4 | 3-B | RA521-1 | sheet-12 | 4-B | U14-1 | sheet-6 | 4-A | U401 | sheet-28 | 3-C |
| RA513-4 | sheet-4 | 3-B | RA521-2 | sheet-12 | 3-B | U14-2 | sheet-7 | 3-A | U402-1 | sheet-30 | 3-D |
| RA514-1 | sheet-12 | 3-D | RA521-3 | sheet-12 | 4-B | U15 | sheet-16 | 2-C | U402-2 | sheet-30 | 3-C |
| RA514-2 | sheet-12 | 4-D | RA521-4 | sheet-12 | 4-B | U16 | sheet-2 | 2-B | U402-3 | sheet-30 | 2-C |
| RA514-3 | sheet-12 | 4-D | RA522-1 | sheet-12 | 4-B | U17 | sheet-2 | 2-C | U403-1 | sheet-29 | 2-D |
| RA514-4 | sheet-12 | 4-D | RA522-2 | sheet-12 | 4-B | U18 | sheet-19 | 1-C | U403-2 | sheet-29 | 2-C |
| RA515-3 | sheet-12 | 3-C | RA522-3 | sheet-12 | 4-B | U19 | sheet-15 | 3-B | U404 | sheet-29 | 3-A |
| RA515-4 | sheet-12 | 3-C | RA522-4 | sheet-12 | 4-C | U2 | sheet-19 | 1-B | U5 | sheet-19 | 2-B |
| RA516-1 | sheet-12 | 4-C | RA523-1 | sheet-12 | 4-A | U20 | sheet-16 | 3-A | U501 | sheet-6 | 4-A |
| RA516-2 | sheet-12 | 4-C | RA523-2 | sheet-12 | 3-A | U21-1 | sheet-12 | 2-B | U502 | sheet-13 | 3-B |
| RA516-3 | sheet-12 | 3-C | RA523-3 | sheet-12 | 4-A | U21-2 | sheet-12 | 2-A | U503 | sheet-11 | 3-B |
| RA516-4 | sheet-12 | 4-C | RA523-4 | sheet-12 | 3-A | U21-4 | sheet-16 | 4-B | U514 | sheet-28 | 4-B |
| RA517-1 | sheet-12 | 4-B | RE1 | sheet-13 | 2-C | U21-5 | sheet-16 | 4-A | U6 | sheet-19 | 3-B |
| RA517-2 | sheet-12 | 3-B | RE2 | sheet-7 | 1-C | U21-6 | sheet-16 | 3-B | U7 | sheet-18 | 4-B |
| RA517-3 | sheet-12 | 4-C | RE3 | sheet-6 | 1-B | U22 | sheet-22 | 4-B | U8 | sheet-9 | 4-B |
| RA517-4 | sheet-12 | 4-D | RE4 | sheet-7 | 1-C | U23-1 | sheet-12 | 1-D | U9 | sheet-20 | 4-C |
| RA518-1 | sheet-12 | 4-B | RE500 | sheet-7 | 1-D | U23-2 | sheet-12 | 1-C | Y1 | sheet-2 | 3-C |
| RA518-2 | sheet-12 | 3-B | RE501 | sheet-6 | 1-B | U23-3 | sheet-12 | 1-C | Y2 | sheet-22 | 2-C |
| RA518-3 | sheet-12 | 4-B | REV500 | sheet-26 | 2-B | U24 | sheet-17 | 4-D | Y500 | sheet-18 | 4-A |
| RA518-4 | sheet-12 | 3-B | SW500 | sheet-18 | 4-C | U25-1 | sheet-8 | 2-C | Y501 | sheet-15 | 3-B |
| RA519-1 | sheet-12 | 4-B | TH1 | sheet-14 | 1-B | U25-2 | sheet-8 | 1-B | Y502 | sheet-7 | 4-A |
| RA519-2 | sheet-12 | 3-B | TH2 | sheet-20 | 3-C | U25-3 | sheet-8 | 2-C | | | |

## 1-2 System Specifications

| FEATURE | SPECIFICATION | REMARKS |
|---|---|---|
| PROCESSOR | INTEL MOBILE PENTIUM-II(DIXON, CELERON)<br>CLOCK FREQ.: 266/300/333/366MHz<br>PACKAGE TYPE: MMC-2 TYPE | L2 CACHE IN DIXON PROCESSOR |
| CHIPSETS | INTEL i82443BX+i82371EB | i82443BX in MMC-2 Module |
| MEMORY | 2 SODIMM SOCKET<br>(16/32/64/128MB SDRAM MODULE) | MAX 256MB(=128+128) |
| GRAPHICS | 3D ACCELERATOR WITH 2X AGP | ATI 3D RAGE LT PRO AGP |
| VIDEO MEMORY | 4MB SGRAM(8MB FACTORY OPTION) | KM4132G512 |
| LCD DISPLAY | 13.3" XGA TFT LCD<br>14.1" XGA TFT LCD<br>15.1" XGA TFT LCD | SEC |
| FDD | 3.5", 12.7mm Height,<br>FORMATTED 720KB/1.44MB | |
| HDD | S820: 9.5mm(MAX.)<br>S850: 9.5/12.7mm(MAX.)<br>Ultra DMA33 support | 2.1GB/3.2GB/4.3GB/6.4GB<br>REPLACEABLE DESIGN |
| CD-ROM | 3.5/5.25", 12.7mm, 24X, 680MB | |
| DVD-ROM(TBD) | 3.5/5.25", 12.7mm,<br>2.4X(DVD-ROM), 20X (CD-ROM) | FACTORY OPTION |
| PCMCIA | PCI BUS, CARD-BUS / ZV-PORT SUPPORT,<br>2 TYPE I/II OR 1 TYPE III CARDS SUPPORT | TI, PCI1251B |
| INTEGRATED AUDIO | 16 BIT STEREO, 3D POSITIONAL AUDIO,<br>WAVETABLE WITH DLS,<br>BUILT-IN 1-WATT STEREO SPEAKER | ESS TECH., ES1978S<br>ES1918 AC-98 CODEC |
| INTERNAL MODEM | 56Kbps, PCI MODEM | LUCENT, 1646T00 |
| POINTING DEVICE | TOUCH PAD, MULTI FINGER DETECTION,<br>WHELL FUNCTION<br>EXT. PS/2 MOUSE [OPTION]<br>EXT. SERIAL MOUSE [OPTION] | |
| I/O PORT | 1 SERIAL(RS-232C) : 9 PIN<br>1 PARALLEL : 25 PIN<br>1 EXT. MONITOR : 15 PIN<br>1 PS/2 : 6 PIN<br>1 S-VHS TV OUT : 4 PIN<br>1 DOCKING :160 PIN<br>2 USB : 4 PIN<br>1 FIR<br>1 MIC-IN<br>1 LINE-IN<br>1 HEADPHONE-OUT<br>1 DC-IN | 160Pin for Mini Dock |

| FEATURE | SPECIFICATION | REMARKS |
|---|---|---|
| BIOS & PMS | APM/ACPI, DMI 2.1, WfM2.0 | SST 29EE020 |
| BATTERY | Li-Ion SMART BATTERY, 5,100mAhr<br>Ni-MH DUMB BATTERY, 4,000mAhr | |
| ADAPTER | 60-Watts, AC 100~240V FREE-VOLTAGE | |
| SECURITY | KENSINGTON LOCK | |
| DIMENSION | S820: 310(W) x 252(D) x 33(H)mm<br>S850: 310(W) x 252(D) x 40(H)mm | |
| WEIGHT | S820: 5.26lbs<br>S850: 5.84lbs | 13.3” LCD, Li-Ion Battery weight saver |

## 1-3 Switch Setting(Switch SW500)

| | ON | OFF |
|---|---|---|
| SW1 | Reserved | XGA |
| SW2 | FLEX | AIO |

# 1-4 POST Errors / Beep Codes

| Error Codes | Beep Codes | Meaning |
|---|---|---|
| 02 | 1-1-1-3 | Verify Real Mode |
| 04 | 1-1-2-1 | Get CPU type |
| 06 | 1-1-2-3 | Initialize system hardware |
| 07 | 1-1-2-4 | Disable system ROM shadow |
| 08 | 1-1-3-1 | Initialize chipset registers with initial POST values |
| 09 | 1-1-3-2 | Set in POST flag |
| 0A | 1-1-3-3 | Initialize CPU registers |
| 0C | 1-1-4-1 | Initialize cache to initial POST values |
| 0E | 1-1-4-3 | Initialize I/O |
| 0F | 1-1-4-4 | Initialize the local bus IDE |
| 10 | 1-2-1-1 | Initialize Power Management |
| 11 | 1-2-1-2 | Load alternate registers with initial POST values |
| 12 | 1-2-1-3 | Restore CR0 after CPU is reset |
| 14 | 1-2-2-1 | Initialize keyboard controller |
| 16 | 1-2-2-3 | BIOS ROM checksum |
| 17 | 1-2-2-4 | Init external cache before memory autosize |
| 18 | 1-2-3-1 | 8254 timer initialization |
| 1A | 1-2-3-3 | 8237 DMA controller initialization |
| 1C | 1-2-4-1 | Reset Programmable Interrupt Controller |
| 20 | 1-3-1-1 | Test DRAM refresh |
| 22 | 1-3-1-3 | Test 8742 Keyboard Controller |
| 24 | 1-3-2-1 | Set ES segment register to 4 GB |
| 28 | 1-3-3-1 | Autosize DRAM |
| 29 | 1-3-3-2 | Initializes the POST memory manager |
| 2A | 1-3-3-3 | Clear 512K base RAM |
| 2C | 1-3-4-1 | Test 512K base address lines |
| 2E | 1-3-4-3 | Test 512K base memory |
| 32 | 1-4-1-3 | Test CPU bus-clock frequency |
| 33 | 1-4-1-4 | Initializes the Phoenix dispatch manager |
| 34 | 1-4-2-1 | Test CMOS RAM |
| 35 | 1-4-2-2 | Initialize alternate chipset registers |
| 37 | 1-4-2-4 | Reinitialize the chipset (MB only) |
| 38 | 1-4-3-1 | Shadow system BIOS ROM |
| 39 | 1-4-3-2 | Reinitialize the cache (MB only) |
| 3A | 1-4-3-3 | Autosize cache |
| 3C | 1-4-4-1 | Configure advanced chipset registers |
| 3D | 1-4-4-2 | Load alternate registers with CMOS values |
| 40 | 2-1-1-1 | Set initial CPU speed |
| 41 | 2-1-1-2 | ROM pilot initialization (Null Feature) |
| 42 | 2-1-1-3 | Initialize interrupt vectors |
| 44 | 2-1-2-1 | Initialize BIOS interrupts |
| 46 | 2-1-2-3 | Check ROM copyright notice |
| 47 | 2-1-2-4 | Initialize I2O(intelligent IO) |
| 48 | 2-1-3-1 | Check video configuration against CMOS |
| 49 | 2-1-3-2 | Initialize PCI bus and devices |
| 4A | 2-1-3-3 | Initialize all video adapters in system |
| 4B | 2-1-3-4 | Initialize quiet boot |
| 4C | 2-1-4-1 | Shadow video BIOS ROM |
| 4E | 2-1-4-3 | Display copyright notice |
| 4F | 2-1-4-4 | Allocate memory for the multiboot data |

| Error Codes | Beep Codes | Meaning |
|---|---|---|
| 50 | 2-2-1-1 | Display CPU type and speed |
| 51 | 2-2-1-2 | Initialize EISA board |
| 52 | 2-2-1-3 | Test keyboard |
| 54 | 2-2-2-1 | Set key click if enabled |
| 56 | 2-2-2-3 | Enable keyboard |
| 58 | 2-2-3-1 | Test for unexpected interrupts |
| 59 | 2-2-3-2 | Initialize the POST display service |
| 5A | 2-2-3-3 | Display prompt "Press F2 to enter SETUP" |
| 5B | 2-2-3-4 | Disable L1 cache during POST |
| 5C | 2-2-4-1 | Test RAM between 512 and 640K |
| 60 | 2-3-1-1 | Test extended memory |
| 62 | 2-3-1-3 | Test extended memory address lines |
| 64 | 2-3-2-1 | Jump to UserPatch1 |
| 66 | 2-3-2-3 | Configure advanced cache registers |
| 67 | 2-3-2-4 | Initializes multi-processor(Null Feature) |
| 68 | 2-3-3-1 | Enable external and CPU caches |
| 69 | 2-3-3-2 | Initialize the smm handler |
| 6A | 2-3-3-3 | Display external cache size |
| 6B | 2-3-3-4 | Load custom defaults value (Null Feature) |
| 6C | 2-3-4-1 | Display shadow message |
| 6E | 2-3-4-3 | Display non-disposable segments |
| 70 | 2-4-1-1 | Display error message |
| 72 | 2-4-1-3 | Check for configuration errors |
| 74 | 2-4-2-1 | Test real-time clock |
| 76 | 2-4-2-3 | Check for keyboard errors |
| 7C | 2-4-4-1 | Set up hardware interrupt vectors |
| 7D | 2-4-4-2 | Initialize intelligent system monitoring (Null Feature) |
| 7E | 2-4-4-3 | Test coprocessor if present |
| 80 | 3-1-1-1 | Disable onboard I/O ports |
| 81 | 3-1-1-2 | Configure all devices |
| 82 | 3-1-1-3 | Detect and install external RS232 ports |
| 83 | 3-1-1-4 | Configure non-MCD IDE controller |
| 84 | 3-1-2-1 | Detect and install external parallel ports |
| 85 | 3-1-2-2 | Configure PnP PC compatible (pcc) devices |
| 86 | 3-1-2-3 | Re-initialize onboard I/o ports |
| 87 | 3-1-2-4 | Configure motherboard configuration devices (MCD) |
| 88 | 3-1-3-1 | Initialize BIOS Data Area |
| 89 | 3-1-3-2 | Enable NMiS |
| 8A | 3-1-3-3 | Initialize Extended BIOS Data Area |
| 8B | 3-1-3-4 | Test Mouse (Null Feature) |
| 8C | 3-1-4-1 | Initialize floppy controller |
| 8F | 3-1-4-4 | Configure ATA drive count |
| 90 | 3-2-1-1 | Initialize hard-disk controller |
| 91 | 3-2-1-2 | Initialize local-bus hard-disk controller |
| 92 | 3-2-1-3 | Jump to UserPatch1 |
| 93 | 3-2-1-4 | Build MPTABLE for multi-processor boards |
| 94 | 3-2-2-1 | Disable A20 address line |
| 95 | 3-2-2-2 | Initialize CD-ROM |
| 96 | 3-2-2-3 | Clear huge ES segment register |
| 97 | 3-2-2-4 | Fix up multi-processor (Null Feature) |

| Error Codes | Beep Codes | Meaning |
|---|---|---|
| 98 | 3-2-3-1 | Search for option ROMs |
| 99 | 3-2-3-2 | Check HDD smart status |
| 9A | 3-2-3-3 | Shadow option ROMs |
| 9C | 3-2-4-1 | Set up Power Management |
| 9D | 3-2-4-2 | Initialize security engine |
| 9E | 3-2-4-3 | Enable Hardware interrupts |
| 9F | 3-2-4-4 | Configure total fdisk count |
| A0 | 3-3-1-1 | Set time of day |
| A2 | 3-3-1-3 | Check key lock |
| A4 | 3-3-2-1 | Initialize typematic rate |
| A8 | 3-3-3-1 | Erase F2 prompt |
| AA | 3-3-3-3 | Scan for F2 key stroke |
| AC | 3-3-4-1 | Enter SETUP |
| AE | 3-3-4-3 | Clear in-POST flag |
| B0 | 3-4-1-1 | Check for errors |
| B1 | 3-4-1-2 | Unload ROM pilot |
| B2 | 3-4-1-3 | POST done-prepare to boot operating system |
| B4 | 3-4-2-1 | One beep |
| B5 | 3-4-2-2 | Terminate quiet boot |
| B6 | 3-4-2-3 | Check password (optional) |
| B7 | 3-4-2-4 | Configure ACPI |
| B8 | 3-4-3-1 | Clear global descriptor table |
| B9 | 3-4-3-2 | Clean up all graphics before booting |
| BA | 3-4-3-3 | Configure DMI structure |
| BC | 3-4-4-1 | Clear parity checkers |
| BD | 3-4-4-2 | Display multi-boot menu |
| BE | 3-4-4-3 | Clear screen (optional) |
| BF | 3-4-4-4 | Check virus and backup reminders |
| C0 | 4-1-1-1 | Try to boot with INT 19 |
| C1 | 4-1-1-2 | Initializes PEM data structures |
| C2 | 4-1-1-3 | Invokes the error logging function of all registered error handler |
| C3 | 4-1-1-4 | Invokes end of POST error message display |
| C4 | 4-1-2-1 | Initialize (clear) the system error flags |
| C5 | 4-1-2-2 | Initialize docking station-aware CMOS (Null Feature) |
| C6 | 4-1-2-3 | Initialize docking station (Null Feature) |
| C7 | 4-1-2-4 | Configure docking station (Null Feature) |
| C8 | 4-1-3-1 | Check flash recorvery force (Null Feature) |
| C9 | 4-1-3-2 | Check extended checksum of the BIOS (Null Feature) |
| CA | 4-1-3-3 | Initialize serial keyboard (Null Feature) |
| CB | 4-1-3-4 | Initialize ROM/RAM (Null Feature) |
| CC | 4-1-4-1 | Initialize Serial Video (Null Feature) |
| CD | 4-1-4-2 | Initialize PCMATA (Null Feature) |
| D0 | 4-2-1-1 | Exception error |
| D2 | 4-2-1-3 | Unknown interrupt error |
| D4 | 4-2-2-1 | Clear pending timer, keyboard interrupt |
| D6 | 4-2-2-3 | Transfer control to address located at ROM check |
| D8 | 4-2-3-1 | Process termial POST error |
| DA | 4-2-3-3 | Return from extended block move |
| DC | 4-2-4-1 | Transfer to secified address |

## 5-1-5 Parts List

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| B1 | 3301-000326 | CORE-FERRITE BEAD;AB,3.2x2.5x1.3mm,1000,3000G | A-3 | Bot | |
| B10 | 3301-000361 | CORE-FERRITE BEAD;ZZ,5X2X0.9mm,-,- | B-3 | Bot | |
| B11 | 3301-001101 | CORE-FERRITE BEAD;AB,2.0x0.9x0.5mm,-,- | D-2 | Bot | |
| B12 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-2 | Bot | |
| B13 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | E-2 | Bot | |
| B14 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-2 | Bot | |
| B15 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-2 | Bot | |
| B16 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-2 | Bot | |
| B17 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-2 | Bot | |
| B18 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-2 | Bot | |
| B19 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Bot | |
| B2 | 3301-000326 | CORE-FERRITE BEAD;AB,3.2x2.5x1.3mm,1000,3000G | A-3 | Bot | |
| B20 | 3301-000322 | CORE-FERRITE BEAD;AB,3.2x1.6x1.1mm,-,- | F-1 | Bot | |
| B21 | 3301-000322 | CORE-FERRITE BEAD;AB,3.2x1.6x1.1mm,-,- | F-1 | Bot | |
| B3 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | A-3 | Bot | |
| B4 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | A-3 | Bot | |
| B5 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | B-3 | Bot | |
| B507 | 3301-001101 | CORE-FERRITE BEAD;AB,2.0x0.9x0.5mm,-,- | D-3 | Top | |
| B508 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | E-3 | Top | |
| B509 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | E-3 | Top | |
| B510 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | E-3 | Top | |
| B511 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | E-3 | Top | |
| B512 | 3301-000326 | CORE-FERRITE BEAD;AB,3.2x2.5x1.3mm,1000,3000G | D-3 | Top | |
| B513 | 3301-000326 | CORE-FERRITE BEAD;AB,3.2x2.5x1.3mm,1000,3000G | D-3 | Top | |
| B522 | 3301-001101 | CORE-FERRITE BEAD;AB,2.0x0.9x0.5mm,-,- | B-2 | Top | |
| B523 | 3301-001101 | CORE-FERRITE BEAD;AB,2.0x0.9x0.5mm,-,- | D-2 | Top | |
| B524 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Top | |
| B525 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Top | |
| B526 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Top | |
| B527 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Top | |
| B528 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Top | |
| B529 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Top | |
| B530 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | F-1 | Top | |
| B6 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | B-3 | Bot | |
| B7 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | B-3 | Bot | |
| B8 | 3301-000314 | CORE-FERRITE BEAD;AB,1.6x0.8x0.8mm,-,- | B-3 | Bot | |
| B9 | 3301-000322 | CORE-FERRITE BEAD;AB,3.2x1.6x1.1mm,-,- | E-3 | Bot | |
| C1 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-3 | Bot | |
| C10 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | A-3 | Bot | |
| C11 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | A-3 | Bot | |
| C12 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | A-3 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| C13 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | A-3 | Bot | |
| C14 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | A-3 | Bot | |
| C15 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | B-3 | Bot | |
| C16 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | B-3 | Bot | |
| C17 | 2203-001607 | C-CERAMIC,CHIP;220pF,5%,50V,CH,TP,1608,1.6mm | B-3 | Bot | |
| C18 | 2203-001429 | C-CERAMIC,CHIP;470pF,5%,50V,C0G,TP,1608,- | B-3 | Bot | |
| C19 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C2 | 2203-001408 | C-CERAMIC,CHIP;270pF,5%,50V,COG,TP,1608,- | A-3 | Bot | |
| C20 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C21 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C22 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C23 | 2203-000815 | C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,1608,- | B-3 | Bot | |
| C24 | 2203-000815 | C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,1608,- | B-3 | Bot | |
| C25 | 2203-000815 | C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,1608,- | B-3 | Bot | |
| C26 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C27 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C28 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C29 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-3 | Bot | |
| C3 | 2203-005269 | C-CERAMIC,CHIP;330pF,5%,50V,NPO,TP,2012,- | A-3 | Bot | |
| C30 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C31 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-3 | Bot | |
| C32 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| C33 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | F-2 | Bot | |
| C34 | 2203-000998 | C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C35 | 2203-000815 | C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C36 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C37 | 2203-000815 | C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C38 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| C39 | 2203-000293 | C-CERAMIC,CHIP;10pF,0.5pF,50V,NPO,TP,1608,- | E-2 | Bot | |
| C4 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | A-3 | Bot | |
| C40 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | C-2 | Bot | |
| C41 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | C-2 | Bot | |
| C42 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | C-2 | Bot | |
| C43 | 2203-000998 | C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C44 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C45 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C46 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C47 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C48 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C49 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C5 | 2203-001408 | C-CERAMIC,CHIP;270pF,5%,50V,COG,TP,1608,- | A-3 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| C50 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C508 | 2203-001607 | C-CERAMIC,CHIP;220pF,5%,50V,CH,TP,1608,1.6mm | B-3 | Top | |
| C509 | 2203-001607 | C-CERAMIC,CHIP;220pF,5%,50V,CH,TP,1608,1.6mm | B-3 | Top | |
| C51 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C510 | 2203-001607 | C-CERAMIC,CHIP;220pF,5%,50V,CH,TP,1608,1.6mm | B-3 | Top | |
| C511 | 2203-001607 | C-CERAMIC,CHIP;220pF,5%,50V,CH,TP,1608,1.6mm | B-3 | Top | |
| C512 | 2203-000998 | C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,1608,- | E-3 | Top | |
| C513 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | E-3 | Top | |
| C514 | 2203-000998 | C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,1608,- | E-3 | Top | |
| C515 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | E-3 | Top | |
| C516 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | E-3 | Top | |
| C517 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | E-3 | Top | |
| C518 | 2203-000815 | C-CERAMIC,CHIP;33pF,5%,50V,NPO,TP,1608,- | D-3 | Top | |
| C52 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| C521 | 2203-000998 | C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,1608,- | D-2 | Top | |
| C522 | 2203-000998 | C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,1608,- | D-2 | Top | |
| C523 | 2203-000998 | C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,1608,- | D-2 | Top | |
| C524 | 2203-000560 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Top | |
| C525 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | E-2 | Top | |
| C526 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | C-2 | Top | |
| C527 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | C-2 | Top | |
| C528 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| C529 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| C53 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| C530 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Top | |
| C531 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Top | |
| C532 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Top | |
| C533 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | E-2 | Top | |
| C534 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| C535 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| C536 | 2203-000560 | C-CERAMIC,CHIP;220nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Top | |
| C537 | 2203-001630 | C-CERAMIC,CHIP;330nF,+80-20%,16V,Y5V,TP,1608, | F-1 | Top | |
| C538 | 2203-001630 | C-CERAMIC,CHIP;330nF,+80-20%,16V,Y5V,TP,1608, | F-1 | Top | |
| C539 | 2203-001630 | C-CERAMIC,CHIP;330nF,+80-20%,16V,Y5V,TP,1608, | F-1 | Top | |
| C54 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| C55 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | B-2 | Bot | |
| C56 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | C-2 | Bot | |
| C57 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| C58 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| C59 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| C6 | 2203-005269 | C-CERAMIC,CHIP;330pF,5%,50V,NPO,TP,2012,- | A-3 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| C60 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| C7 | 2203-000626 | C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,1608,- | A-3 | Bot | |
| C8 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| C9 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB1 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Bot | |
| CB10 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| CB100 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB101 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB102 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB103 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Bot | |
| CB11 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-3 | Bot | |
| CB12 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-3 | Bot | |
| CB13 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | A-3 | Bot | |
| CB14 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB15 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB16 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB17 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB18 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB19 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB2 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB20 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-3 | Bot | |
| CB21 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-3 | Bot | |
| CB22 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-3 | Bot | |
| CB23 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB24 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB25 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB26 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB27 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB28 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB29 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB3 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-3 | Bot | |
| CB30 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB31 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB32 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Bot | |
| CB33 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| CB34 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| CB35 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| CB36 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| CB37 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| CB38 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Bot | |
| CB39 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| CB4 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-3 | Bot | |
| CB40 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB41 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB42 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | A-2 | Bot | |
| CB43 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB44 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB45 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB46 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-2 | Bot | |
| CB47 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB48 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB49 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB5 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-3 | Bot | |
| CB50 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB500 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB501 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB502 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB503 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB504 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB505 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB506 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB507 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB508 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB509 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB51 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| CB510 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | C-3 | Top | |
| CB511 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB512 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB513 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB514 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB515 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB516 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB517 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB518 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-3 | Top | |
| CB519 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB52 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| CB520 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-3 | Top | |
| CB521 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-3 | Top | |
| CB522 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | D-3 | Top | |
| CB523 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB524 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |
| CB525 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-3 | Top | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| CB526 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-3 | Top | |
| CB527 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB528 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB529 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB53 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| CB530 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Top | |
| CB531 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB532 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB533 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB534 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB535 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB536 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB537 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | C-2 | Top | |
| CB538 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | C-2 | Top | |
| CB539 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB54 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |
| CB540 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB541 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB542 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB543 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | E-2 | Top | |
| CB544 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | B-2 | Top | |
| CB545 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | B-2 | Top | |
| CB546 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | B-2 | Top | |
| CB547 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB548 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB549 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB55 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB550 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB551 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB552 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB553 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB554 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB555 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB556 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB557 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB558 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB559 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | C-2 | Top | |
| CB56 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB560 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Top | |
| CB561 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB562 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Top | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| CB563 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB564 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB565 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB566 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB567 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB568 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Top | |
| CB569 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Top | |
| CB57 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB570 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Top | |
| CB571 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Top | |
| CB572 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Top | |
| CB573 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Top | |
| CB574 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Top | |
| CB575 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Top | |
| CB576 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | C-2 | Top | |
| CB577 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB578 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Top | |
| CB579 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB58 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB580 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Top | |
| CB581 | 2203-005261 | C-CERAMIC,CHIP;1000NF,10%,25V,Y5P,TP,3216 | E-2 | Top | |
| CB582 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Top | |
| CB583 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Top | |
| CB584 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Top | |
| CB585 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB586 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB587 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB588 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB589 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB59 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB590 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB591 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB592 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB593 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB594 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Top | |
| CB595 | 2404-000299 | C-TA,CHIP;22uF,20%,16V,-,TP,6032,- | B-1 | Top | |
| CB6 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB60 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB61 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB62 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | B-2 | Bot | |
| CB63 | 2203-000236 | C-CERAMIC,CHIP;100pF,5%,50V,NPO,TP,1608,- | D-2 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| CB64 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB65 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB66 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Bot | |
| CB67 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | D-2 | Bot | |
| CB68 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Bot | |
| CB69 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB7 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB70 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB71 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-2 | Bot | |
| CB72 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | B-2 | Bot | |
| CB73 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Bot | |
| CB74 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-2 | Bot | |
| CB75 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | D-2 | Bot | |
| CB76 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB77 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB78 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB79 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-2 | Bot | |
| CB8 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB80 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB81 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB82 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB83 | 2203-000257 | C-CERAMIC,CHIP;10nF,10%,50V,X7R,TP,1608,- | B-1 | Bot | |
| CB84 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Bot | |
| CB85 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Bot | |
| CB86 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Bot | |
| CB87 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | C-1 | Bot | |
| CB88 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB89 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Bot | |
| CB9 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-3 | Bot | |
| CB90 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | F-1 | Bot | |
| CB91 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB92 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB93 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB94 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-1 | Bot | |
| CB95 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-1 | Bot | |
| CB96 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-1 | Bot | |
| CB97 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | A-1 | Bot | |
| CB98 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CB99 | 2203-000189 | C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608, | B-1 | Bot | |
| CS1 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | A-3 | Bot | |
| CS10 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-2 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| CS11 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | A-1 | Bot | |
| CS12 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-1 | Bot | |
| CS13 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-1 | Bot | |
| CS14 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | A-1 | Bot | |
| CS15 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | B-1 | Bot | |
| CS16 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-1 | Bot | |
| CS17 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | B-1 | Bot | |
| CS2 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | B-3 | Bot | |
| CS3 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-3 | Bot | |
| CS4 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-3 | Bot | |
| CS5 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | A-3 | Bot | |
| CS500 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | D-3 | Top | |
| CS501 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | D-3 | Top | |
| CS502 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-3 | Top | |
| CS503 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | E-2 | Top | |
| CS504 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | E-2 | Top | |
| CS505 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | E-2 | Top | |
| CS506 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-2 | Top | |
| CS507 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-2 | Top | |
| CS508 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | F-2 | Top | |
| CS6 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | E-3 | Bot | |
| CS7 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | A-2 | Bot | |
| CS8 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | A-2 | Bot | |
| CS9 | 2203-000440 | C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,1608,- | C-2 | Bot | |
| CT1 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | C-3 | Bot | |
| CT10 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | A-2 | Bot | |
| CT11 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | E-2 | Bot | |
| CT12 | 2404-000128 | C-TA,CHIP;10uF,20%,16V,-,TP,6032,- | A-2 | Bot | |
| CT13 | 2404-000128 | C-TA,CHIP;10uF,20%,16V,-,TP,6032,- | A-2 | Bot | |
| CT14 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | A-2 | Bot | |
| CT15 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | A-2 | Bot | |
| CT16 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | B-2 | Bot | |
| CT17 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | D-2 | Bot | |
| CT18 | 2404-001003 | C-TA,CHIP;100UF,20%,16V,GP,TP,7343H | C-2 | Bot | |
| CT19 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | C-2 | Bot | |
| CT2 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | C-3 | Bot | |
| CT20 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | C-2 | Bot | |
| CT21 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | C-2 | Bot | |
| CT22 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | C-2 | Bot | |
| CT23 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | C-2 | Bot | |
| CT24 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | D-2 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| CT25 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | F-2 | Bot | |
| CT26 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | F-2 | Bot | |
| CT27 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | F-2 | Bot | |
| CT28 | 2404-000256 | C-TA,CHIP;47UF,20%,16V,GP,TP,7343 | F-1 | Bot | |
| CT29 | 2404-000256 | C-TA,CHIP;47UF,20%,16V,GP,TP,7343 | F-1 | Bot | |
| CT3 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | C-3 | Bot | |
| CT30 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | B-1 | Bot | |
| CT31 | 2404-001003 | C-TA,CHIP;100UF,20%,16V,GP,TP,7343H | C-1 | Bot | |
| CT4 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | A-3 | Bot | |
| CT5 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | A-3 | Bot | |
| CT501 | 2404-000299 | C-TA,CHIP;22uF,20%,16V,-,TP,6032,- | D-3 | Top | |
| CT502 | 2404-000299 | C-TA,CHIP;22uF,20%,16V,-,TP,6032,- | D-3 | Top | |
| CT503 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | D-3 | Top | |
| CT504 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | C-2 | Top | |
| CT505 | 2404-000151 | C-TA,CHIP;1uF,20%,16V,-,TP,3216,- | C-2 | Top | |
| CT506 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | D-2 | Top | |
| CT507 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | B-2 | Top | |
| CT508 | 2404-000151 | C-TA,CHIP;1uF,20%,16V,-,TP,3216,- | C-2 | Top | |
| CT509 | 2404-000299 | C-TA,CHIP;22uF,20%,16V,-,TP,6032,- | C-2 | Top | |
| CT510 | 2404-000299 | C-TA,CHIP;22uF,20%,16V,-,TP,6032,- | C-2 | Top | |
| CT511 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | F-1 | Top | |
| CT512 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | F-1 | Top | |
| CT513 | 2404-000194 | C-TA,CHIP;22uF,20%,35V,-,TP,7343,4.4mm | F-1 | Top | |
| CT6 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | B-3 | Bot | |
| CT7 | 2404-000114 | C-TA,CHIP;10uF,10%,35V,-,TP,7343,4.4mm | A-3 | Bot | |
| CT8 | 2404-000299 | C-TA,CHIP;22uF,20%,16V,-,TP,6032,- | A-3 | Bot | |
| CT9 | 2404-000284 | C-TA,CHIP;10uF,20%,16V,-,TP,3528,- | A-2 | Bot | |
| D1 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | E-2 | Bot | |
| D2 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | E-2 | Bot | |
| D3 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-1 | Bot | |
| D4 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | E-1 | Bot | |
| D5 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-1 | Bot | |
| D500 | 0401-000191 | DIODE-SWITCHING;MMBD4148,50V,-,DL-35,TP | B-3 | Top | |
| D501 | 0401-000191 | DIODE-SWITCHING;MMBD4148,50V,-,DL-35,TP | B-3 | Top | |
| D502 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-2 | Top | |
| D503 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | E-2 | Top | |
| D504 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | E-2 | Top | |
| D505 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-2 | Top | |
| D506 | 0401-000191 | DIODE-SWITCHING;MMBD4148,50V,-,DL-35,TP | C-2 | Top | |
| D507 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-1 | Top | |
| D6 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-1 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| D7 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-1 | Bot | |
| D8 | 0404-000114 | DIODE-SCHOTTKY;MMBD301LT1,30V,-,SOT-23,TP | C-1 | Bot | |
| F1 | 1404-001089 | THERMISTOR-PTC;0.21ohm,-,-,6.0V,40A,2.2A,TP | E-3 | Bot | |
| J1 | 3709-001014 | CONNECTOR-CARD EDGE;144P,0.8mm,ANGLE,AUF | A-1 | Bot | |
| J2 | 3709-001014 | CONNECTOR-CARD EDGE;144P,0.8mm,ANGLE,AUF | B-1 | Bot | |
| J3 | 3710-001475 | CONNECTOR-SOCKET;34P,2R,1.27MM,SMD-A,AU30U | F-1 | Bot | |
| J500 | 3722-000218 | JACK-MODULAR;7P,-,AG,BLK,#16-30 | A-3 | Top | |
| J501 | 3701-001036 | CONNECTOR-DSUB;9P,1R,MALE,ANGLE,AUF | A-3 | Top | |
| J502 | 3701-001026 | CONNECTOR-DSUB;15P,2R,FEMALE,SMD-S,AUF | B-3 | Top | |
| J503 | 3701-001035 | CONNECTOR-DSUB;25P,1R,FEMALE,ANGLE,AUF | E-3 | Top | |
| J504 | 3722-000228 | JACK-DIN;6P,-,AG,BLK,#16-30 E-3 | Top | | |
| J505 | 3711-003987 | CONNECTOR-HEADER;BOX,160P,2R,0.635mm,ANGLE,AUF | C-3 | Top | |
| J506 | 3708-000458 | CONNECTOR-FPC/FC/PIC;2P,1.25mm,SMD-S,SN | F-3 | Top | |
| J507 | 3710-001427 | CONNECTOR-SOCKET;21P,2R,2mm,SMD-S,AUF | C-3 | Top | |
| J508 | 3709-001119 | CONNECTOR-CARD EDGE;152P,1.27MM,ANGLE,- | B-3 | Top | |
| J508 | 3710-001273 | CONNECTOR-SOCKET;154P,2R,0.6mm,SMD-S,SN | B-3 | Top | |
| J509 | 3708-001338 | CONNECTOR-FPC/FC/PIC;30P,0.625mm,SMD-S,SN | B-2 | Top | |
| J510 | 3710-001476 | CONNECTOR-SOCKET;400P,10R,1.27MM,SMD-S,AUF | C-2 | Top | |
| J511 | 3722-001365 | JACK-MODULAR;6P/2C,-,AU50U,BLK,- | F-2 | Top | |
| J512 | 3711-000541 | CONNECTOR-HEADER;BOX,2P,1R,1.25mm,SMD-A,SN | F-2 | Top | |
| J513 | 3710-000253 | CONNECTOR-SOCKET;60P,-,1.27mm,ANGLE,AUF | D-2 | Top | |
| J514 | 3708-000344 | CONNECTOR-FPC/FC/PIC;26P,1.0mm,SMD,- | E-2 | Top | |
| J515 | 3711-004113 | CONNECTOR-HEADER;BOX,70P,2R,0.635mm,SMD-S,AUF | F-2 | Top | |
| J516 | 3708-001282 | CONNECTOR-FPC/FC/PIC;24P,1mm,SMD-S,SN | C-1 | Top | |
| J517 | 3708-000458 | CONNECTOR-FPC/FC/PIC;2P,1.25mm,SMD-S,SN | C-1 | Top | |
| J518 | 3702-001117 | CONNECTOR-RIBBON;26P,FEMALE,SMD-A,AUF | F-1 | Top | |
| J519 | 3710-001487 | CONNECTOR-SOCKET;44P,2R,2MM,SMD-A,AUF | B-1 | Top | |
| J520 | 3711-000419 | CONNECTOR-HEADER;3WALL,14P,1R,1.25mm,SMD-S,SN | C-1 | Top | |
| J521 | 3708-000458 | CONNECTOR-FPC/FC/PIC;2P,1.25mm,SMD-S,SN | F-1 | Top | |
| J522 | 3711-003392 | CONNECTOR-HEADER;3WALL,20P,2R,2mm,ANGLE,AUF | C-1 | Top | |
| Q1 | 0505-000275 | FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.02ohm | F-3 | Bot | |
| Q2 | 0505-000275 | FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.02ohm | B-3 | Bot | |
| Q3 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | B-3 | Bot | |
| Q4 | 0505-000275 | FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.02ohm | B-2 | Bot | |
| Q5 | 0505-000275 | FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.02ohm | D-2 | Bot | |
| Q500 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | D-3 | Top | |
| Q501 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | C-2 | Top | |
| Q502 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | E-2 | Top | |
| Q503 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | E-2 | Top | |
| Q504 | 0505-001049 | FET-GAAS;BSS84,-50V,20V,-130mA,250mW,SO | E-2 | Top | |
| Q505 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | E-2 | Top | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| Q506 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | E-2 | Top | |
| Q507 | 0501-000463 | TR-SMALL SIGNAL;KST2907A,PNP,350mW,SOT-23,TP,1 | C-1 | Top | |
| Q508 | 0501-000458 | TR-SMALL SIGNAL;KST2222ATF,NPN,350mW,SOT-23,TP | C-1 | Top | |
| Q509 | 0505-000275 | FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.02ohm | D-3 | Top | |
| Q6 | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,5ohm,200mW, | C-1 | Bot | |
| Q7 | 0505-000275 | FET-SILICON;SI4435DY,P,-30V,+-8.0A,0.02ohm | B-1 | Bot | |
| R1 | 2007-001167 | R-CHIP;75ohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R10 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R100 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R101 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R102 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R103 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R104 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R105 | 2007-000092 | R-CHIP;15Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R106 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R107 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R108 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R109 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R11 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R110 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R111 | 2007-000659 | R-CHIP;27ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R112 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R113 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R114 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R115 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R116 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R117 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R118 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R119 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R12 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R120 | 2007-000309 | R-CHIP;10ohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R121 | 2007-000071 | R-CHIP;22ohm,5%,1/16W,DA,TP,1608 | F-2 | Bot | |
| R123 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R124 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R125 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R126 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R127 | 2007-000120 | R-CHIP;680ohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R128 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R129 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R13 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R130 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| R131 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R132 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R133 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R134 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R135 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R136 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R137 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R138 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R139 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R14 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R140 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R141 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R142 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R143 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R144 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R145 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R146 | 2007-000052 | R-CHIP;10Kohm,1%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R147 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R148 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R149 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | F-2 | Bot | |
| R15 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R150 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R151 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R154 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R155 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R156 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Bot | |
| R157 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R158 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R159 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R16 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R160 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R161 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R162 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R163 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R164 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R165 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R166 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R167 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R168 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R169 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R17 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| R170 | 2007-000097 | R-CHIP;47Kohm,5%,1/16W,DA,TP,1608 | E-2 | Bot | |
| R171 | 2007-000033 | R-CHIP;0OHM,5%,1/8W,DA,TP,3216 | F-2 | Bot | |
| R172 | 2007-000033 | R-CHIP;0OHM,5%,1/8W,DA,TP,3216 | F-2 | Bot | |
| R176 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R18 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R182 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R183 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R188 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-1 | Bot | |
| R189 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-1 | Bot | |
| R19 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R190 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | B-1 | Bot | |
| R191 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | B-1 | Bot | |
| R192 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R193 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R194 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R195 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R196 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R197 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-1 | Bot | |
| R198 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R199 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-1 | Bot | |
| R2 | 2007-001167 | R-CHIP;75ohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R20 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R21 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R22 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R23 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R24 | 2007-001167 | R-CHIP;75ohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R25 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R26 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R27 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R28 | 2007-000081 | R-CHIP;2.7Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R29 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | D-3 | Bot | |
| R3 | 2007-001167 | R-CHIP;75ohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R30 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | D-3 | Bot | |
| R31 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | D-3 | Bot | |
| R32 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | D-3 | Bot | |
| R33 | 2007-000076 | R-CHIP;330ohm,5%,1/16W,DA,TP,1608 | D-3 | Bot | |
| R34 | 2007-000097 | R-CHIP;47Kohm,5%,1/16W,DA,TP,1608 | D-3 | Bot | |
| R35 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R36 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R37 | 2007-001134 | R-CHIP;68ohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R38 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| R39 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R4 | 2007-001167 | R-CHIP;75ohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R40 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R41 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R42 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R43 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R44 | 2007-000076 | R-CHIP;330ohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R45 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R46 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R47 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R48 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R49 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R5 | 2007-001167 | R-CHIP;75ohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R50 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R51 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R514 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | B-3 | Top | |
| R515 | 2007-000659 | R-CHIP;27ohm,5%,1/16W,DA,TP,1608 | B-3 | Top | |
| R516 | 2007-000124 | R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608 | B-3 | Top | |
| R517 | 2007-000659 | R-CHIP;27ohm,5%,1/16W,DA,TP,1608 | B-3 | Top | |
| R518 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | B-3 | Top | |
| R519 | 2007-000124 | R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608 | B-3 | Top | |
| R52 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R520 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R521 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R522 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R523 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R524 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R525 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R526 | 2007-000097 | R-CHIP;47Kohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R527 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R528 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R529 | 2007-000463 | R-CHIP;18ohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R53 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R530 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R531 | 2007-000118 | R-CHIP;390ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R532 | 2007-000113 | R-CHIP;33ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R533 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R534 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R535 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | C-3 | Top | |
| R537 | 2007-000118 | R-CHIP;390ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R538 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| R539 | 2007-000309 | R-CHIP;10ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R54 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R540 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R542 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R544 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R545 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R546 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | 8M Option |
| R548 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | |
| R55 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R550 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | E-3 | Top | |
| R551 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | E-3 | Top | |
| R552 | 2007-000096 | R-CHIP;30Kohm,5%,1/16W,DA,TP,1608 | E-3 | Top | |
| R553 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | E-3 | Top | |
| R554 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R555 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R556 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R558 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R559 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R56 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R560 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R562 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R563 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R564 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R565 | 2007-000659 | R-CHIP;27ohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R566 | 2007-000659 | R-CHIP;27ohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R567 | 2007-000092 | R-CHIP;15Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R568 | 2007-000659 | R-CHIP;27ohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R569 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R57 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R570 | 2007-000092 | R-CHIP;15Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R571 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R572 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R573 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R574 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R576 | 2007-000033 | R-CHIP;0OHM,5%,1/8W,DA,TP,3216 | E-2 | Top | |
| R577 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R578 | 2007-000124 | R-CHIP;2.2Kohm,5%,1/16W,DA,TP,1608 | F-2 | Top | |
| R579 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | F-2 | Top | |
| R58 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R583 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R584 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| R585 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R586 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R587 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R588 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R589 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R59 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R590 | 2007-000092 | R-CHIP;15Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R591 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R592 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R593 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R594 | 2007-000093 | R-CHIP;20Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R595 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R596 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R597 | 2007-000097 | R-CHIP;47Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R598 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R599 | 2007-000109 | R-CHIP;1Mohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R6 | 2011-001074 | RC-NETWORK;2.2Kohm,10%,220pF,9,6V,24P | E-3 | Bot | |
| R60 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R600 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R601 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R602 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R603 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | C-2 | Top | |
| R604 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R605 | 2007-000129 | R-CHIP;27Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R606 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R607 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R608 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R609 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R61 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R610 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608 | D-2 | Top | |
| R611 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R612 | 2007-000097 | R-CHIP;47Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R613 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R614 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R615 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | E-2 | Top | |
| R616 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-2 | Top | |
| R619 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-2 | Top | |
| R62 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R620 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-2 | Top | |
| R621 | 2007-000074 | R-CHIP;100ohm,5%,1/16W,DA,TP,1608 | F-2 | Top | |
| R622 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |

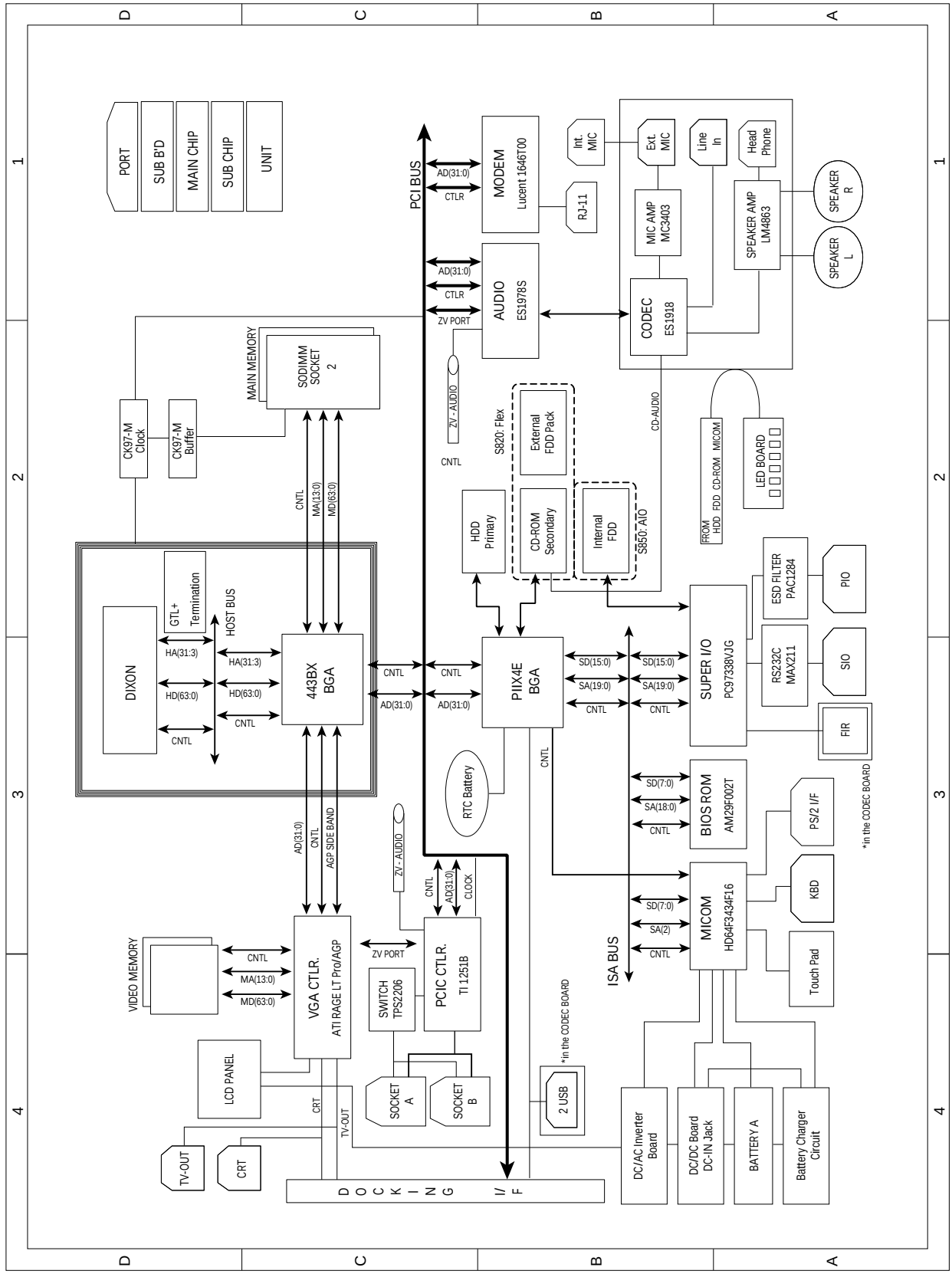
| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| R623 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |
| R624 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-1 | Top | |
| R625 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-1 | Top | |
| R626 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-2 | Top | |
| R627 | 2007-000087 | R-CHIP;6.8Kohm,5%,1/16W,DA,TP,1608 | B-1 | Top | |
| R628 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |
| R629 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |
| R63 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R630 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | B-1 | Top | |
| R631 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-1 | Top | |
| R632 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-1 | Top | |
| R633 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |
| R634 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-1 | Top | |
| R635 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |
| R636 | 2007-000096 | R-CHIP;30Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |
| R637 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | C-1 | Top | |
| R638 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-1 | Top | |
| R639 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-1 | Top | |
| R64 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R640 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | F-1 | Top | |
| R65 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R650 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R651 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R652 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R653 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R654 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R655 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R656 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R657 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | B-2 | Top | |
| R658 | 2007-000071 | R-CHIP;22ohm,5%,1/16W,DA,TP,1608 | F-3 | Top | |
| R66 | 2007-000102 | R-CHIP;100Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R660 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | 8M OPTION |
| R661 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | 8M OPTION |
| R662 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | D-3 | Top | 8M OPTION |
| R67 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R68 | 2007-000084 | R-CHIP;4.7Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R69 | 2007-000075 | R-CHIP;220ohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R7 | 2011-001074 | RC-NETWORK;2.2Kohm,10%,220pF,9,6V,24P | E-3 | Bot | |
| R71 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R73 | 2007-001179 | R-CHIP;8.2Kohm,5%,1/16W,DA,TP,1608 | C-3 | Bot | |
| R743 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | E-3 | Top | |

| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| R76 | 2007-000105 | R-CHIP;200Kohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R77 | 2007-000105 | R-CHIP;200Kohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R78 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R79 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R8 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R80 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R81 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R82 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R83 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-3 | Bot | |
| R84 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R85 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R86 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R87 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R88 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R89 | 2007-000078 | R-CHIP;1Kohm,5%,1/16W,DA,TP,1608 | D-3 | Bot | |
| R9 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-3 | Bot | |
| R90 | 2007-000105 | R-CHIP;200Kohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R91 | 2007-000105 | R-CHIP;200Kohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R92 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R93 | 2007-001134 | R-CHIP;68ohm,5%,1/16W,DA,TP,1608 | A-2 | Bot | |
| R94 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R95 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R96 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R97 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | B-2 | Bot | |
| R98 | 2007-000090 | R-CHIP;10Kohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| R99 | 2007-000070 | R-CHIP;0ohm,5%,1/16W,DA,TP,1608 | C-2 | Bot | |
| RA1 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Bot | |
| RA2 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Bot | |
| RA3 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | D-2 | Bot | |
| RA4 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | D-2 | Bot | |
| RA5 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | D-2 | Bot | |
| RA500 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | B-3 | Top | |
| RA501 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-3 | Top | |
| RA502 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-3 | Top | |
| RA503 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Top | |
| RA504 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Top | |
| RA505 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Top | |
| RA506 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | B-2 | Top | |
| RA507 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | B-2 | Top | |
| RA508 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Top | |
| RA509 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Top | |

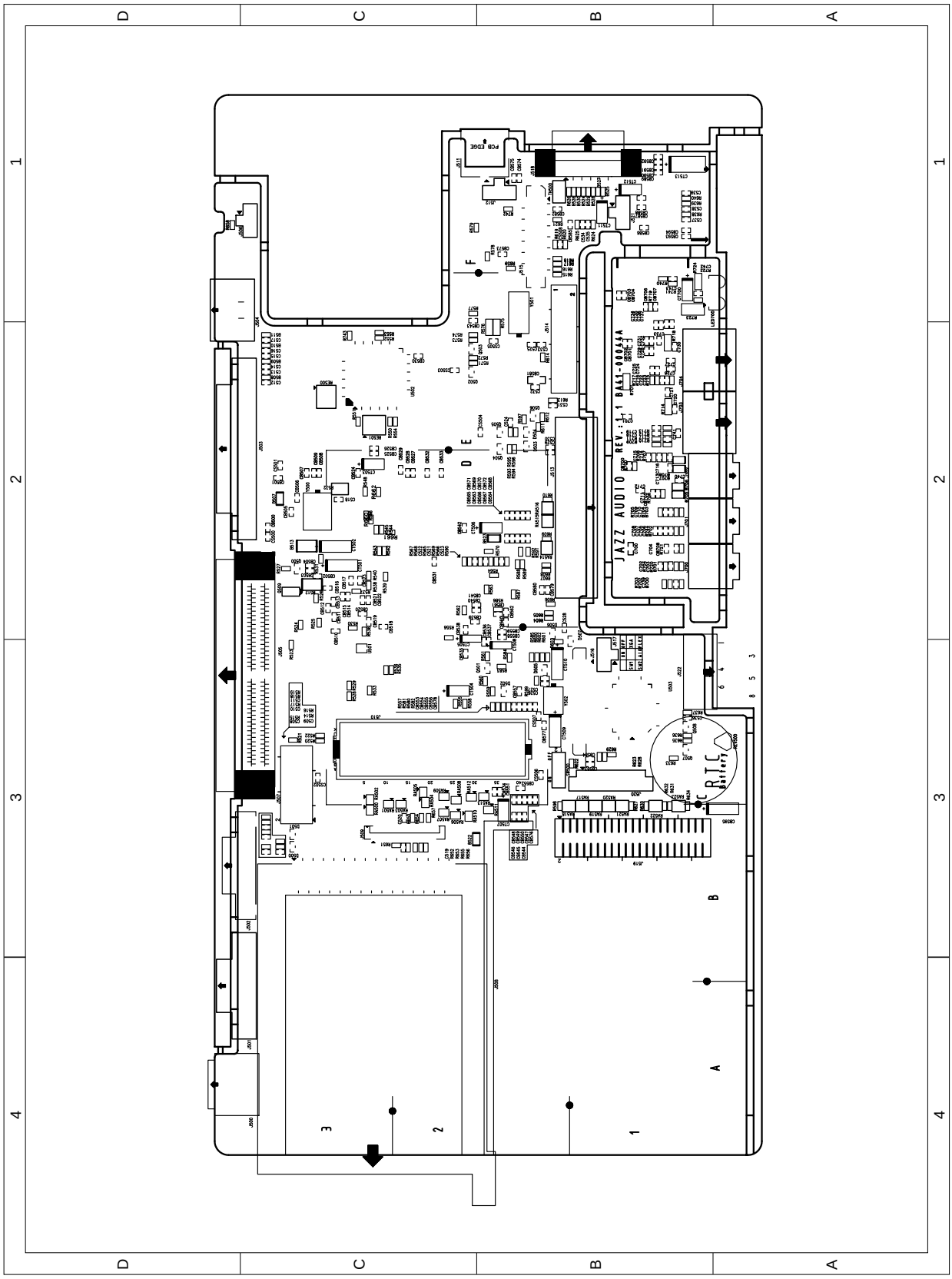
| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| RA510 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | B-2 | Top | |
| RA511 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | B-2 | Top | |
| RA512 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Top | |
| RA513 | 2011-001293 | R-NETWORK;18OHM,5%,0.063W,L,CHIP,8P,TP | C-2 | Top | |
| RA514 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | D-2 | Top | |
| RA515 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | D-2 | Top | |
| RA516 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | D-2 | Top | |
| RA517 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | B-1 | Top | |
| RA518 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | B-2 | Top | |
| RA519 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | B-1 | Top | |
| RA520 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | B-1 | Top | |
| RA521 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | B-1 | Top | |
| RA522 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | B-1 | Top | |
| RA523 | 2011-001036 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP | B-1 | Top | |
| RE1 | 2011-000516 | R-NETWORK;4.7Kohm,5%,1/16W,M,CHIP,10P,TP | E-2 | Bot | |
| RE2 | 2011-000184 | R-NETWORK;10Kohm,5%,1/16W,M,CHIP,10P,TP | E-2 | Bot | |
| RE3 | 2011-000516 | R-NETWORK;4.7Kohm,5%,1/16W,M,CHIP,10P,TP | C-2 | Bot | |
| RE4 | 2011-000516 | R-NETWORK;4.7Kohm,5%,1/16W,M,CHIP,10P,TP | C-2 | Bot | |
| RE500 | 2011-000184 | R-NETWORK;10Kohm,5%,1/16W,M,CHIP,10P,TP | E-3 | Top | |
| RE501 | 2011-000516 | R-NETWORK;4.7Kohm,5%,1/16W,M,CHIP,10P,TP | E-3 | Top | |
| SW500 | 3407-000183 | SWITCH-DIP;24V,25mA,SLIDE,STANDARD | C-2 | Top | |
| TH1 | 1404-001089 | THERMISTOR-PTC;0.21ohm,-,-,6.0V,40A,2.2A,TP | B-3 | Bot | |
| TH2 | 1404-001089 | THERMISTOR-PTC;0.21ohm,-,-,6.0V,40A,2.2A,TP | D-3 | Bot | |
| TH500 | 1404-001089 | THERMISTOR-PTC;0.21ohm,-,-,6.0V,40A,2.2A,TP | F-2 | Top | |
| U1 | 1006-000304 | IC-LINE TRANSCEIVER;211,SOP,28P,300MIL,SINGLE,ST,P | B-3 | Bot | |
| U10 | 1205-001130 | IC-SWITCH;TPS2206IDBLE,SOP,30P,389MIL,PL | A-2 | Bot | |
| U11 | 1109-001093 | IC-VIDEO RAM;4132G512,2x256Kx32BIT,QFP,100P | D-2 | Bot | 4M Option;<br>4132G112:<br>8M Option |
| U12 | 0801-000794 | IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63MIL, | C-2 | Bot | |
| U13 | 0801-000794 | IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63MIL, | C-2 | Bot | |
| U14 | 0904-001248 | IC-SYSTEM PERI.;82371,16BIT,BGA,324P,1064MIL,3 | C-2 | Bot | |
| U15 | 0801-000794 | IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63MIL, | E-2 | Bot | |
| U16 | 1205-001410 | IC-BUFFER;W40S11-02,SOP,28P,10.2*5.3mm,P | B-2 | Bot | |
| U17 | 1209-001156 | IC-SYNTHESIZER;W48C111-16H,SOP,28P,10.2*5.3mm | D-2 | Bot | |
| U18 | 1201-001125 | IC-OP AMP;75S01,SOP,5P,63MIL,SINGLE,100d | E-2 | Bot | |
| U19 | 0903-001069 | IC-MICROCOMPUTER;64F3434,16BIT,QFP,100P,16x16x3 | E-2 | Bot | |
| U2 | 0801-000794 | IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63MIL, | B-3 | Bot | |
| U20 | 0801-002192 | IC-CMOS LOGIC;7S04,INVERTER,SOT-25,5P,63MIL, | E-2 | Bot | |
| U21 | 0801-001070 | IC-CMOS LOGIC;74ACT04,INVERTER,SOP,14P,150MI | E-2 | Bot | |
| U22 | 1204-001420 | IC-AUDIO PROCESSOR;ES1978S,TQFP,100P,-,PLASTIC,5V | F-2 | Bot | |

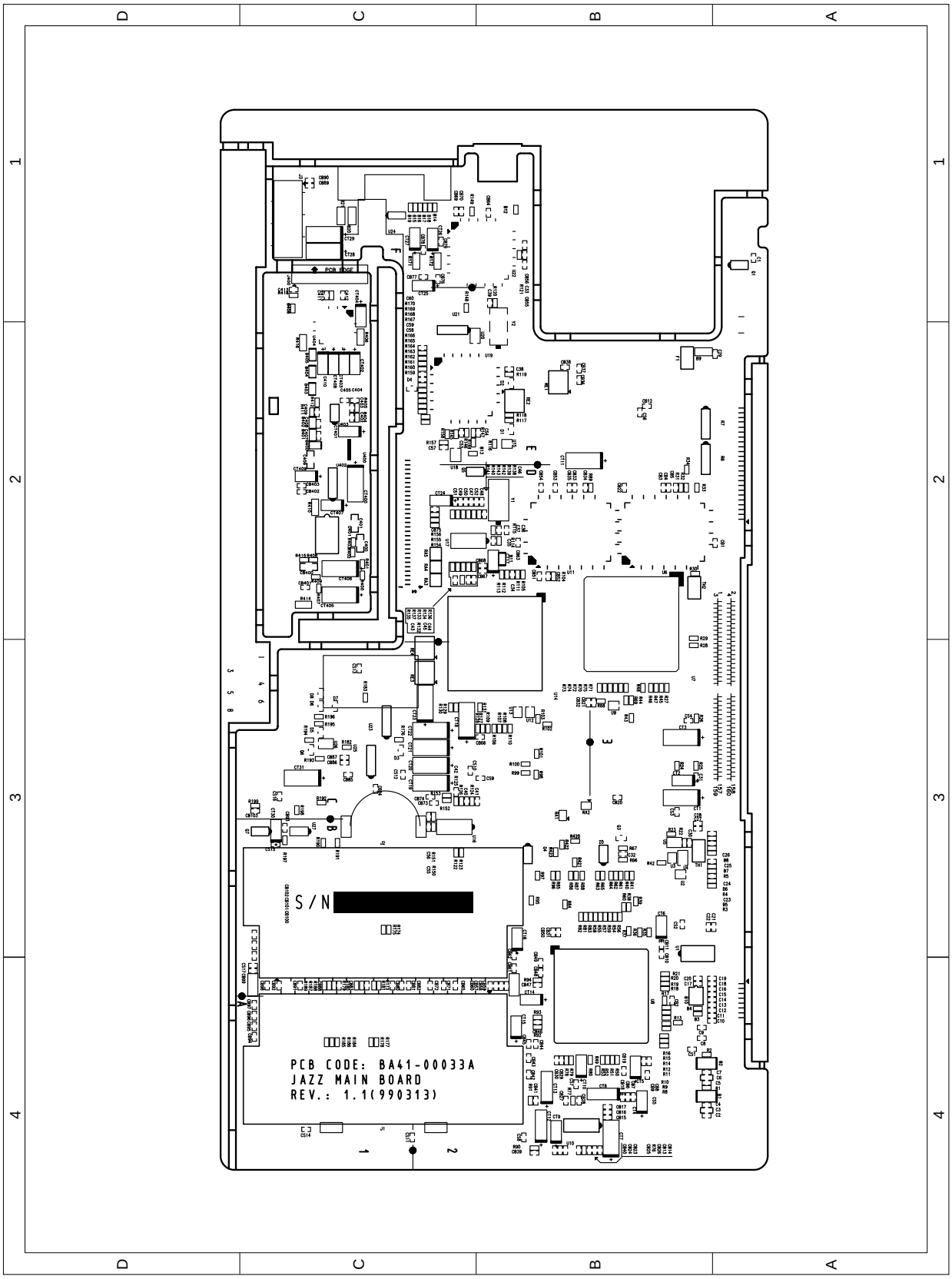
| Location | SEC Code | Description and Specification | CO_ORD | Top/Bottom | Remark |
|---|---|---|---|---|---|
| U23 | 0801-002094 | IC-CMOS LOGIC;74ACT125,BUFFER,SOP,14P,150MIL | C-1 | Bot | |
| U24 | 1203-001460 | IC-SWITCH VOL. REG.;2526,SOP,8P,150MIL,-,8V,-,-40t | F-1 | Bot | |
| U25 | 0801-001071 | IC-CMOS LOGIC;74ACT08,AND GATE,SOP,14P,150MI | C-1 | Bot | |
| U26 | 0801-002192 | IC-CMOS LOGIC;7S04,INVERTER,SOT-25,5P,63MIL, | C-1 | Bot | |
| U27 | 1001-001002 | IC-ANALOG SWITCH;QS3125,BUS CMOS,SOP,16P,150MIL | B-1 | Bot | |
| U3 | 0801-000794 | IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63MIL, | B-3 | Bot | |
| U4 | 0801-002192 | IC-CMOS LOGIC;7S04,INVERTER,SOT-25,5P,63MIL, | B-3 | Bot | |
| U5 | 0801-002192 | IC-CMOS LOGIC;7S04,INVERTER,SOT-25,5P,63MIL, | B-3 | Bot | |
| U501 | 0801-000794 | IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63MIL, | C-3 | Top | |
| U502 | 0904-001158 | IC-I/O CONTROLLER;97338,8BIT,QFP,100P,-,48MHz,TR | E-3 | Top | |
| U503 | 1103-001057 | IC-EEPROM;29EE020,256Kx8BIT,PLCC,32P,-,1 | C-1 | Top | |
| U6 | 1109-001093 | IC-VIDEO RAM;4132G512,2x256Kx32BIT,QFP,100P | D-3 | Bot | 4M Option;<br>4132G112:<br>8M Option |
| U7 | 0904-001192 | IC-GRAPHIC CONT.;3D RAGE LT PRO,-,PBGA,328P,107 | D-3 | Bot | |
| U8 | 0904-001350 | IC-BUS CONTROLLER;1251B,-,BGA,256P,1062MIL,33MHZ,TR | B-3 | Bot | |
| U9 | 0801-000794 | IC-CMOS LOGIC;7S08,AND GATE,SOT-25,5P,63MIL, | C-3 | Bot | |
| Y1 | 2801-000103 | CRYSTAL-SMD;14.31818MHz,50ppm,28-AAV,10pF, | D-2 | Bot | |
| Y2 | 2804-001298 | OSCILLATOR-CLOCK;49.152MHZ,100PPM,CMOS,TP,3.3V,28MA | E-2 | Bot | |
| Y500 | 2804-001092 | OSCILLATOR-CLOCK;29.49892MHz,100ppm,CMOS,TP,5V, | D-3 | Top | |
| Y501 | 2801-003664 | CRYSTAL-SMD;16MHz,50ppm,28-ACJ,16pF,50ohm, | E-2 | Top | |
| Y502 | 2801-000111 | CRYSTAL-SMD;32.768KHz,20ppm,28-AAW,20pF,50 | C-2 | Top | |
| | 6001-001181 | SCREW-MACHINE;CH,+,M1.6,L6.0,ZPC(YEL),SWRCH18A,- | | | EXT,FDD_CONN |
| | 6001-001182 | SCREW-MACHINE;PH,+,M2.0,L3.5,ZPC(YEL),SWRCH18A,FP | | | PCMCIA |
| | 6009-001003 | SCREW-SPECIAL;NO,-,+,M2.5,L5,WHT,FP | | | DOCKING CONN |
| | 6021-000277 | NUT-HEXAGON;2C,M2.6,ZPC(WHT),SWRCH10R | | | |
| | BA41-00033A | PCB-MAIN;JAZZ,-,-,157X304X1.2MM,1.2T | | | MAIN PCB |
| | BA60-00030A | FASTNER-CPU,A;PI4.0,L3.7,-,C3604BD-F | | | |
| | BA70-00030A | SHIELD-EXT,FDD;JAZZ,STS301,T0.15,-,FDD | | | |
| | BA72-00063A | INSULATOR-HDD;JAZZ,PET,V0,CLEAR,T0.1,- | | | |
| | BA73-00001A | RUBBER-SODIMM;JAZZ,CR,BLK,-,MM,-,- | | | |
| | BA96-20010B | ASSY,HARNESS;RTC BATTERY,48MM,2P,(RED/BLK), | | | |

# 4 System Block Diagram

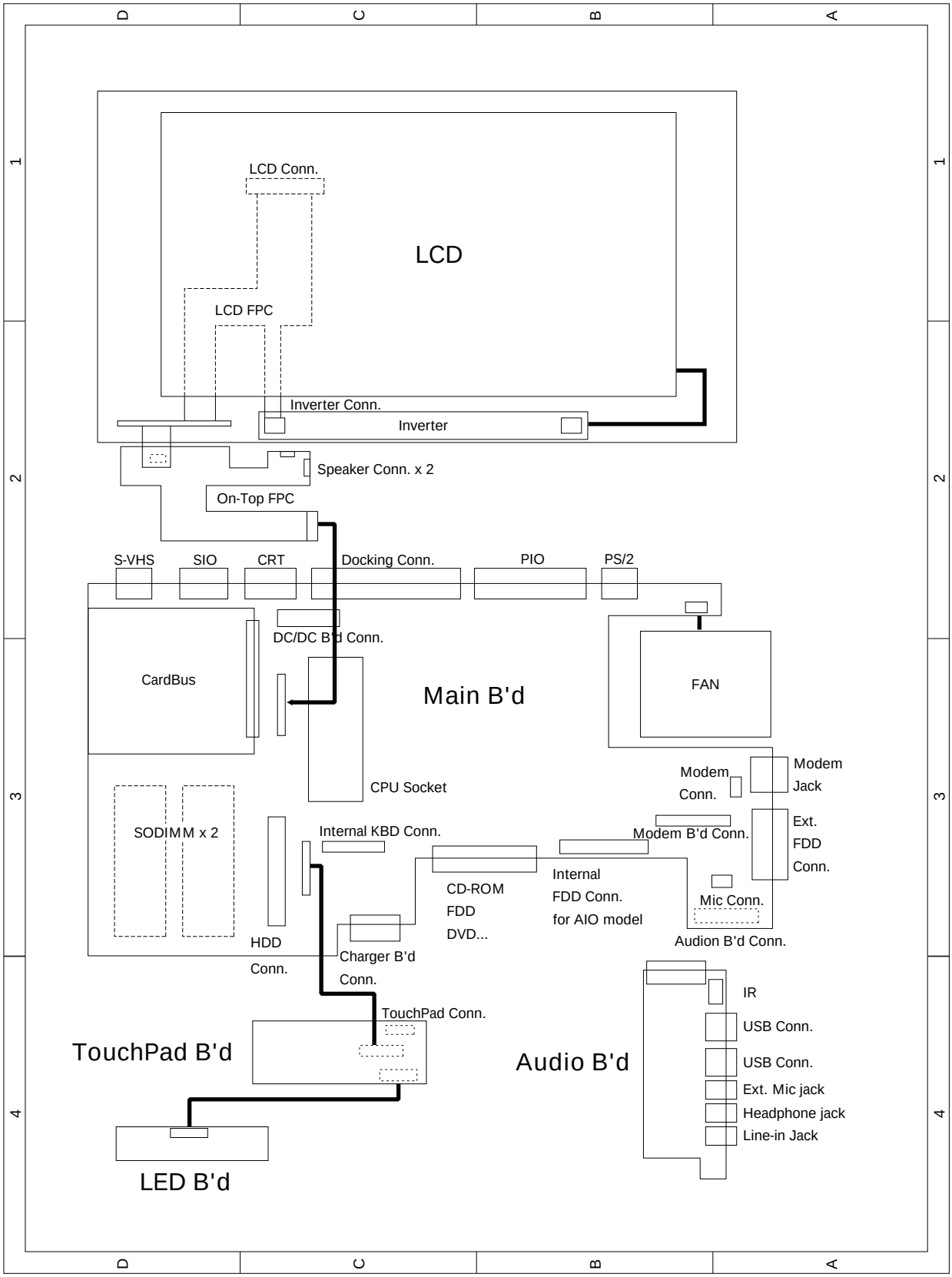


## 5-1-4 PCB Silkscreen




D
C
B
A
1
2
3
4
S/N
PCB CODE: BA41-00033A
JAZZ MAIN BOARD
REV.: 1.1(990313)

# 3 System Wiring Diagram



# 5 Schematic Diagrams and PCB Silkscreen

## 5-1 Main Board

### 5-1-1 Schematic Diagrams

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| Sheet | 5. | SODIMM |
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| Sheet | 22. | Audio Chip & IrDA I/F |
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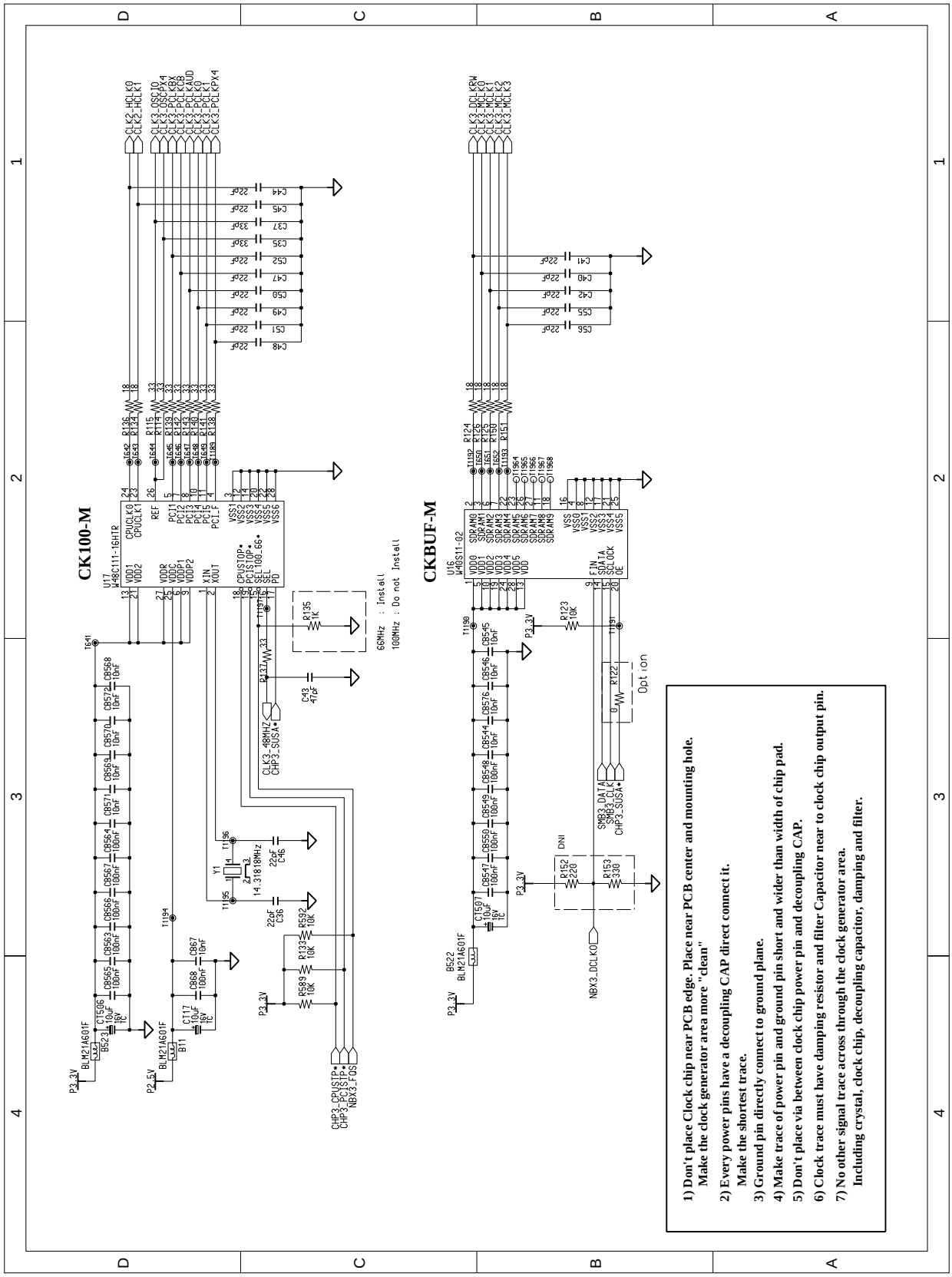
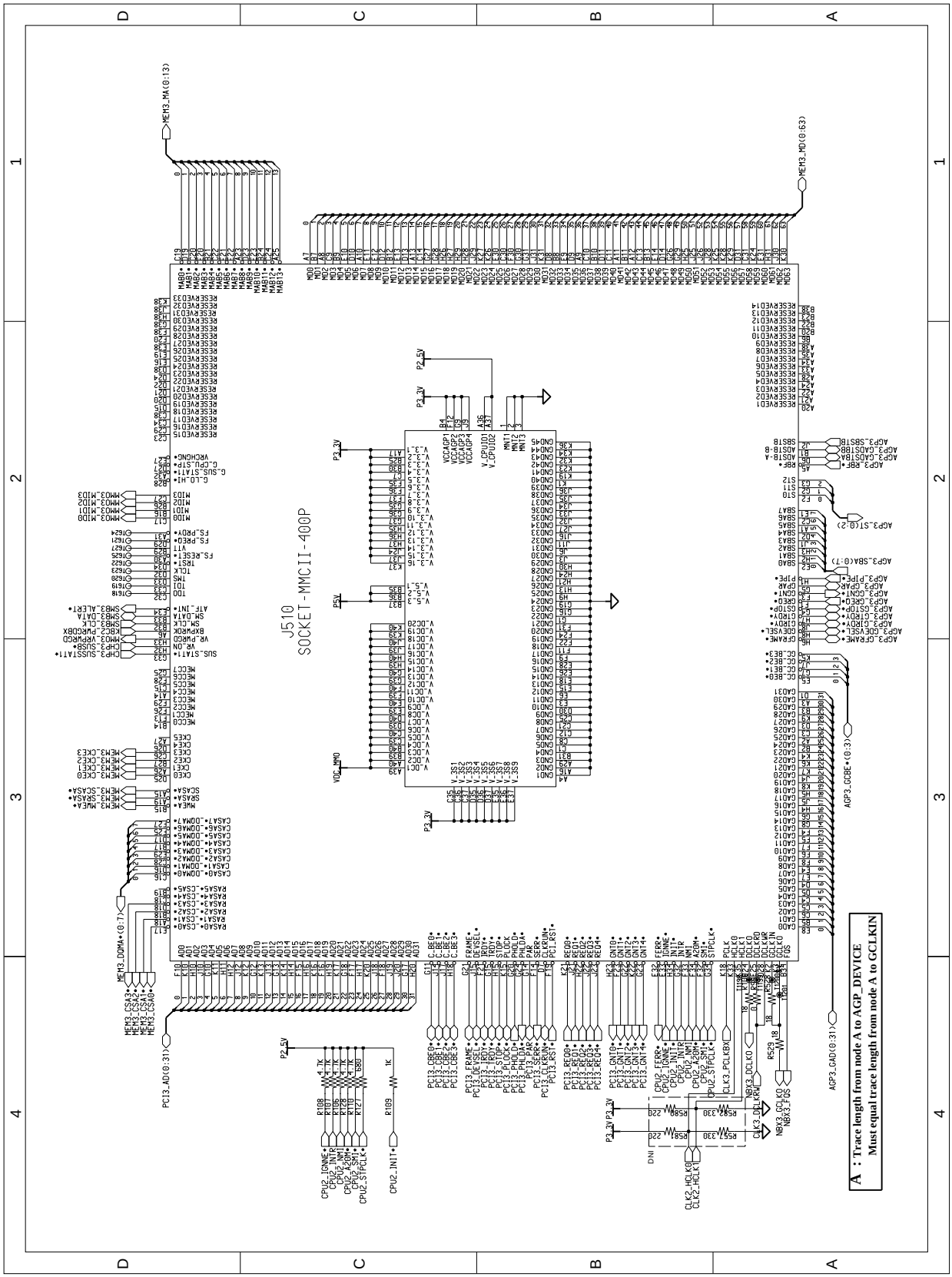
| Sheet | 24. | Modem Connector |
| Sheet | 25. | Test Point |
| Sheet | 26. | Test Point |

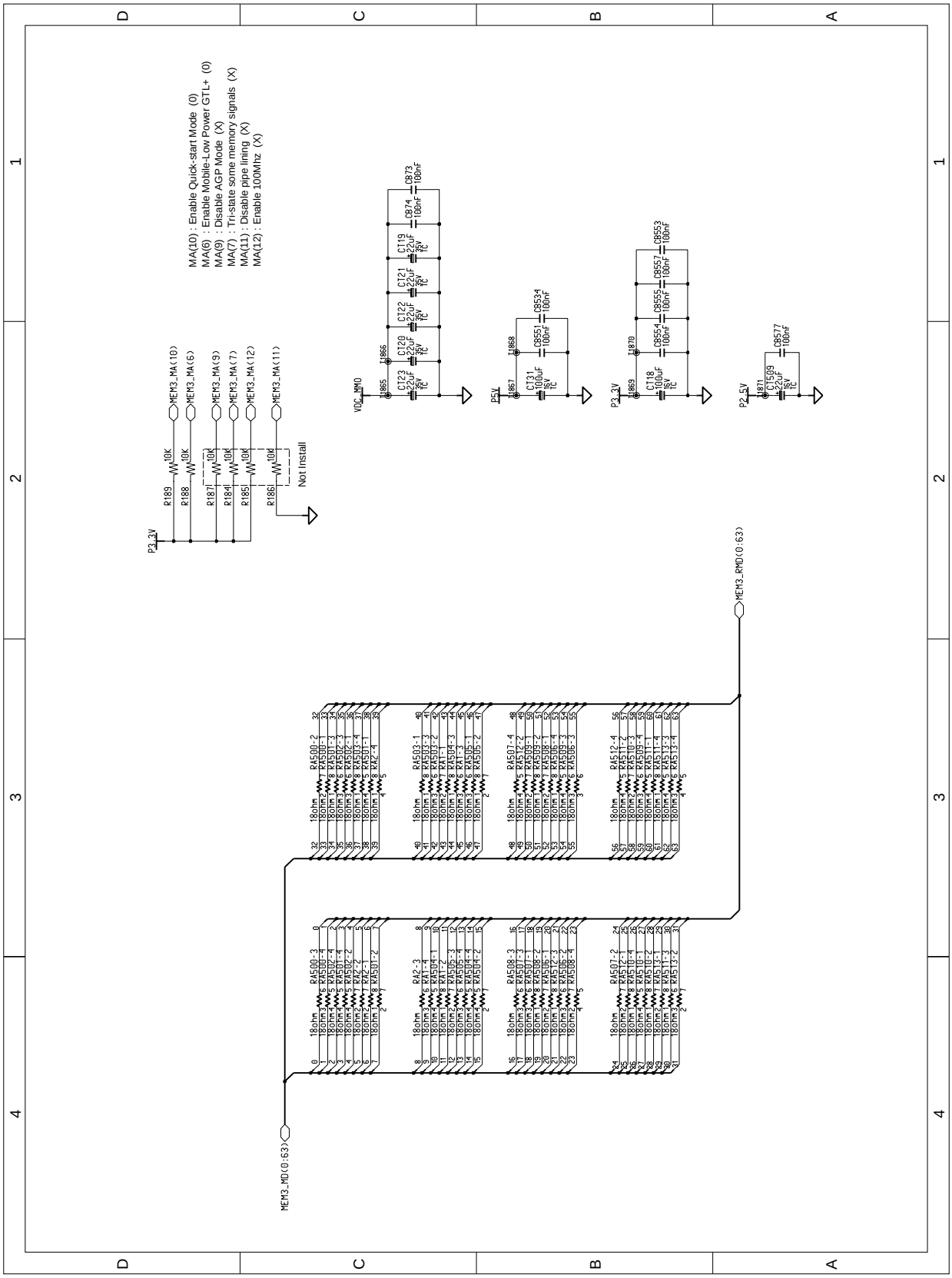
## 5-1-1(a) Main Board Schematic Sheet 2 of 26(Clock Chip)


CK100-M
CKBUF-M
U17
U49C111-16HTR
U16
U48S11-02
Option
1) Don't place Clock chip near PCB edge. Place near PCB center and mounting hole.
Make the clock generator area more "clean"
2) Every power pins have a decoupling CAP direct connect it.
Make the shortest trace.
3) Ground pin directly connect to ground plane.
4) Make trace of power pin and ground pin short and wider than width of chip pad.
5) Don't place via between clock chip power pin and decoupling CAP.
6) Clock trace must have damping resistor and filter Capacitor near to clock chip output pin.
7) No other signal trace across through the clock generator area.
Including crystal, clock chip, decoupling capacitor, damping and filter.

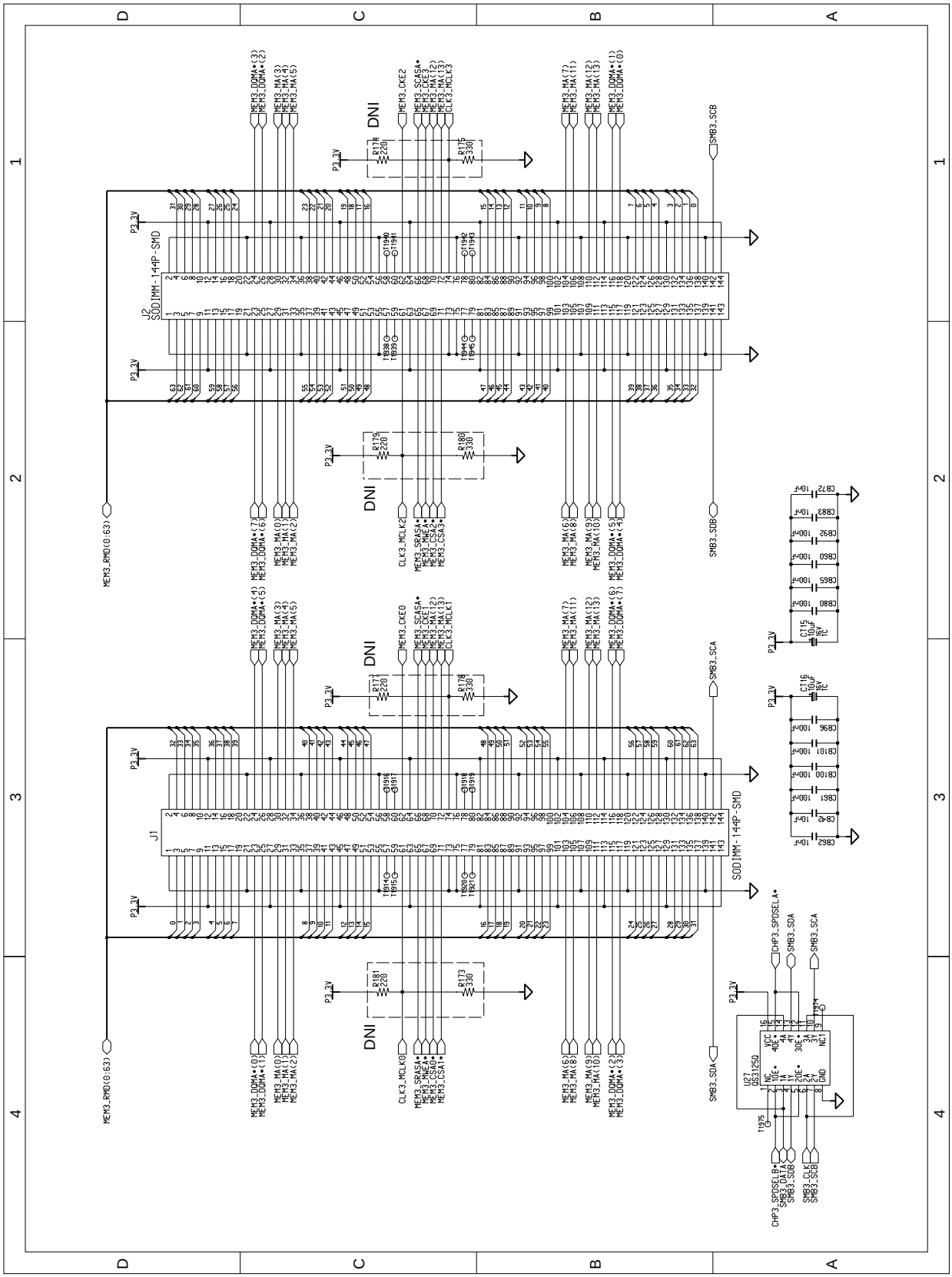
## 5-1-1(b) Main Board Schematic Sheet 3 of 26(DIXON MMC-2)



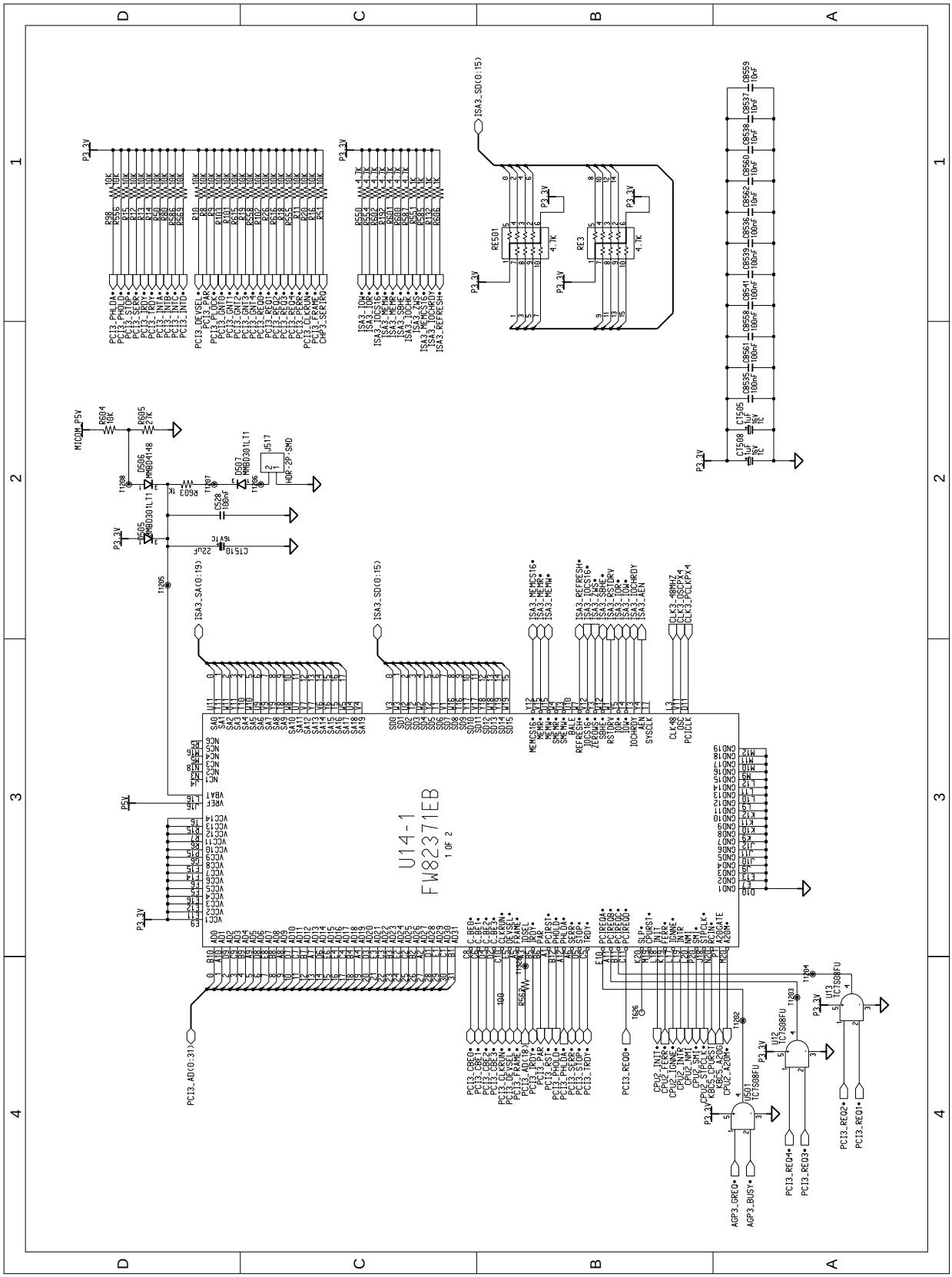
## 5-1-1(c) Main Board Schematic Sheet 4 of 26(MEMORY SERIAL TERMINATOR)



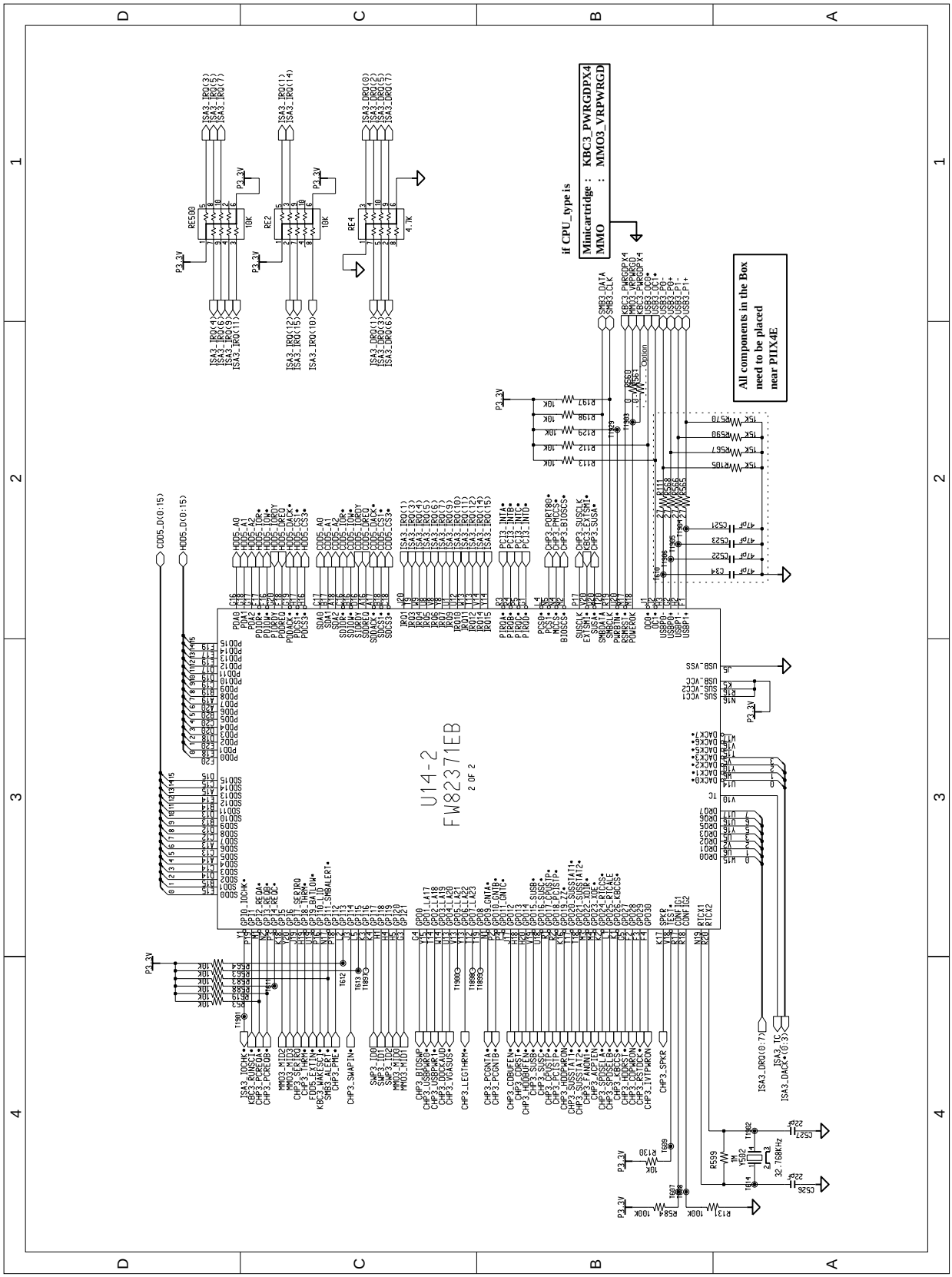
## 5-1-1(d) Main Board Schematic Sheet 5 of 26(SODIMM)



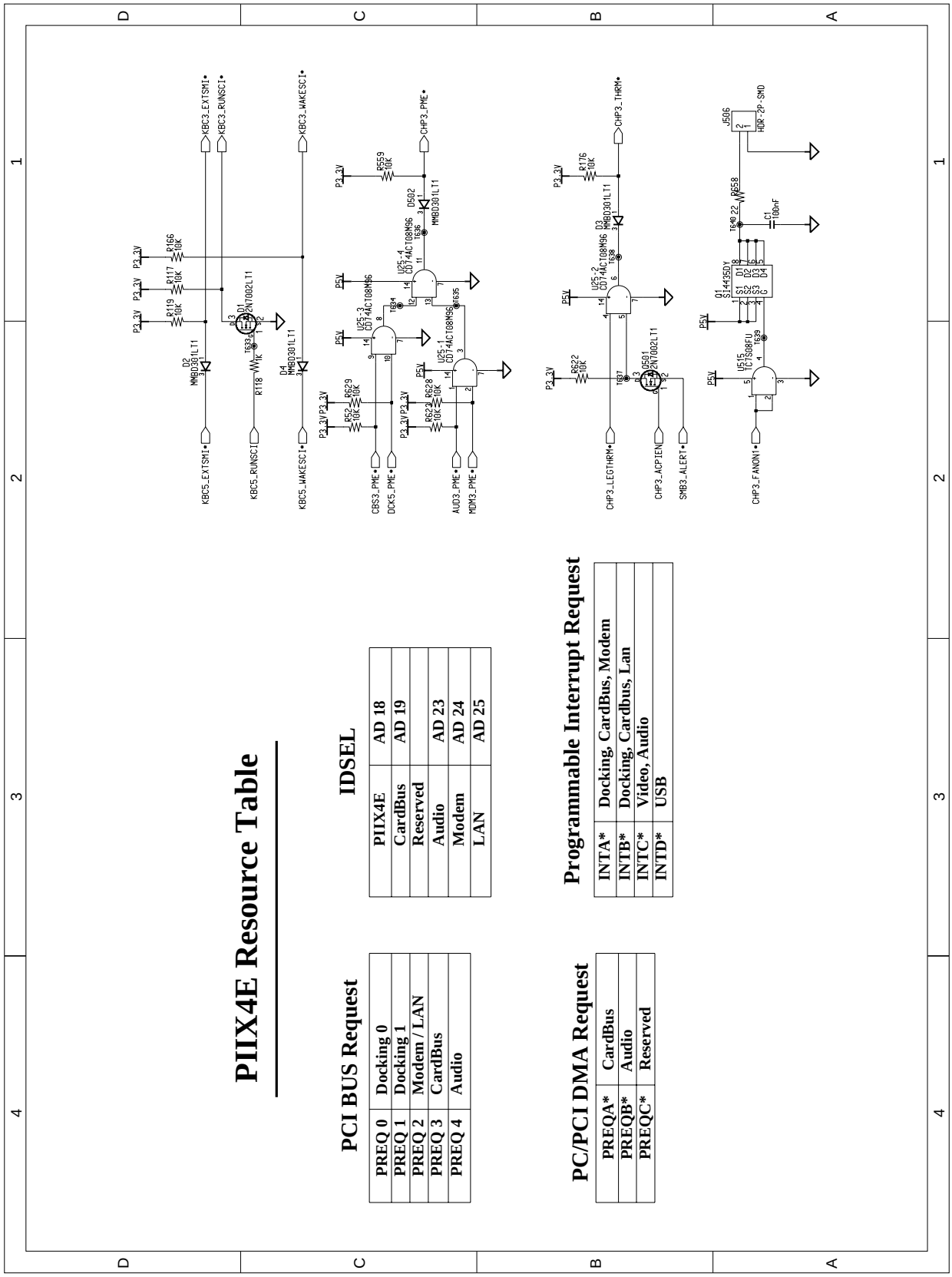
## 5-1-1(e) Main Board Schematic Sheet 6 of 26(PIIX4e-1)



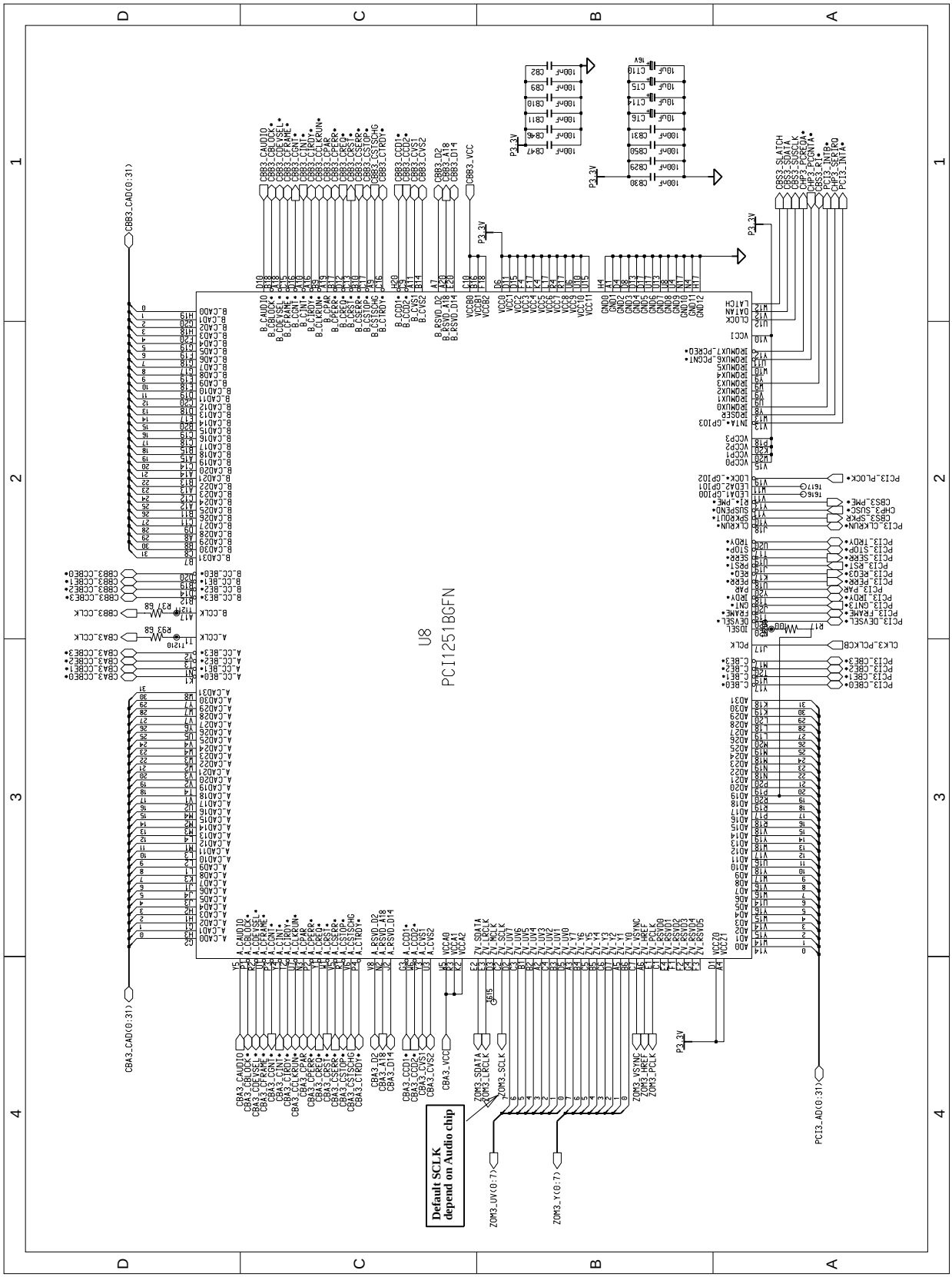
## 5-1-1(f) Main Board Schematic Sheet 7 of 26(PIIX4e-2)



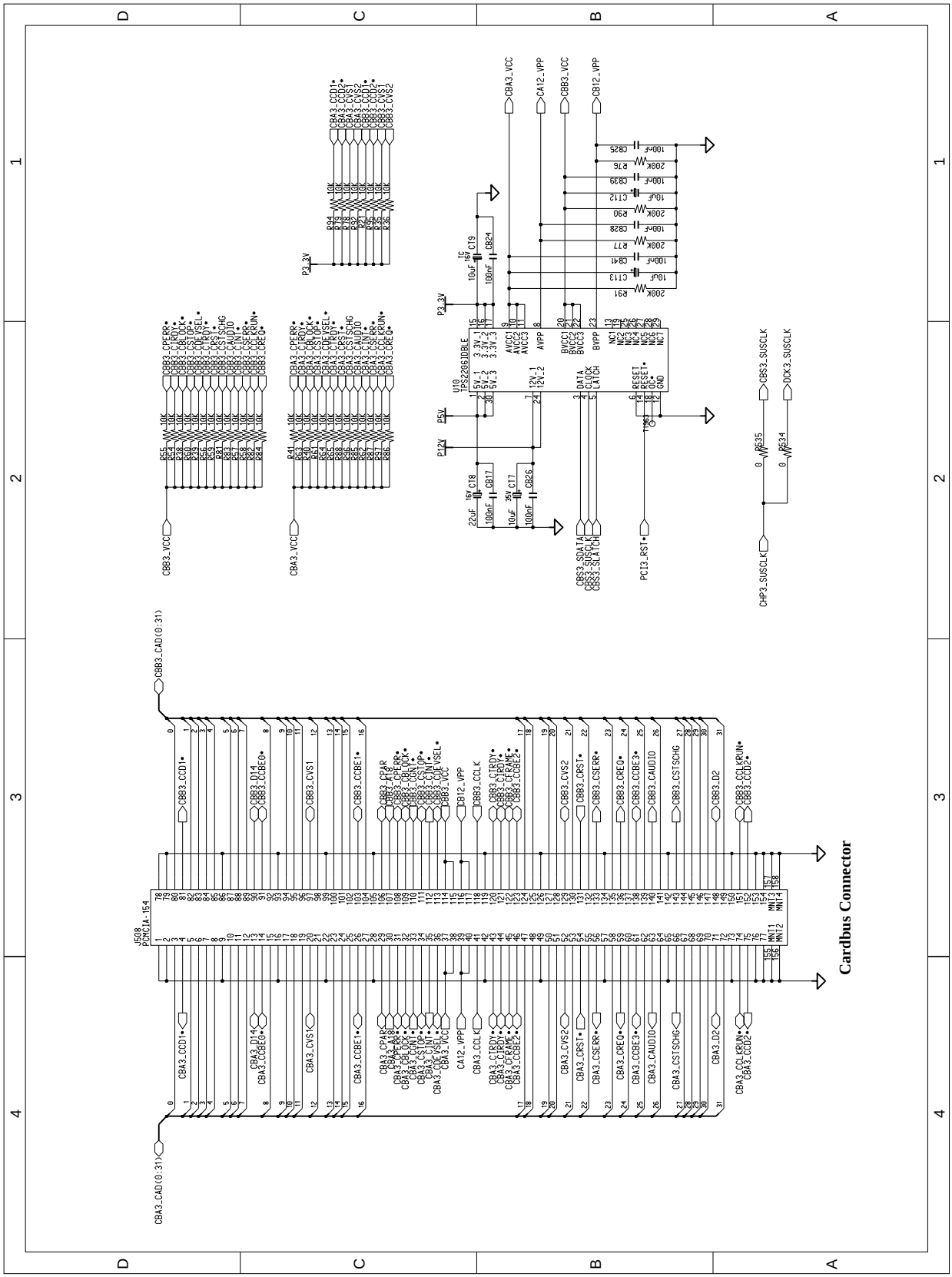
## 5-1-1(g) Main Board Schematic Sheet 8 of 26(PIIX4e-3)



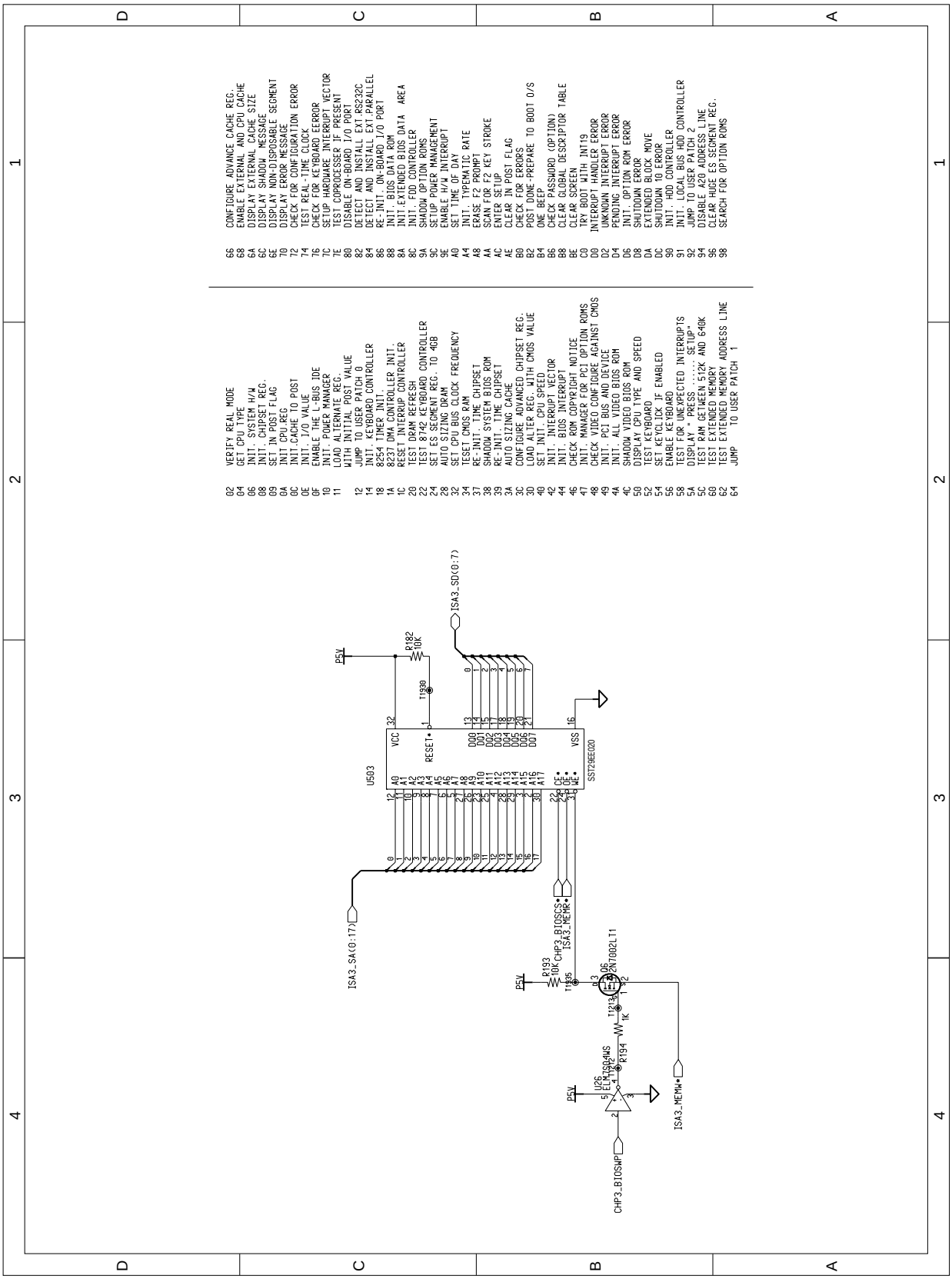
## 5-1-1(h) Main Board Schematic Sheet 9 of 26(PC CARD CONTROLLER)



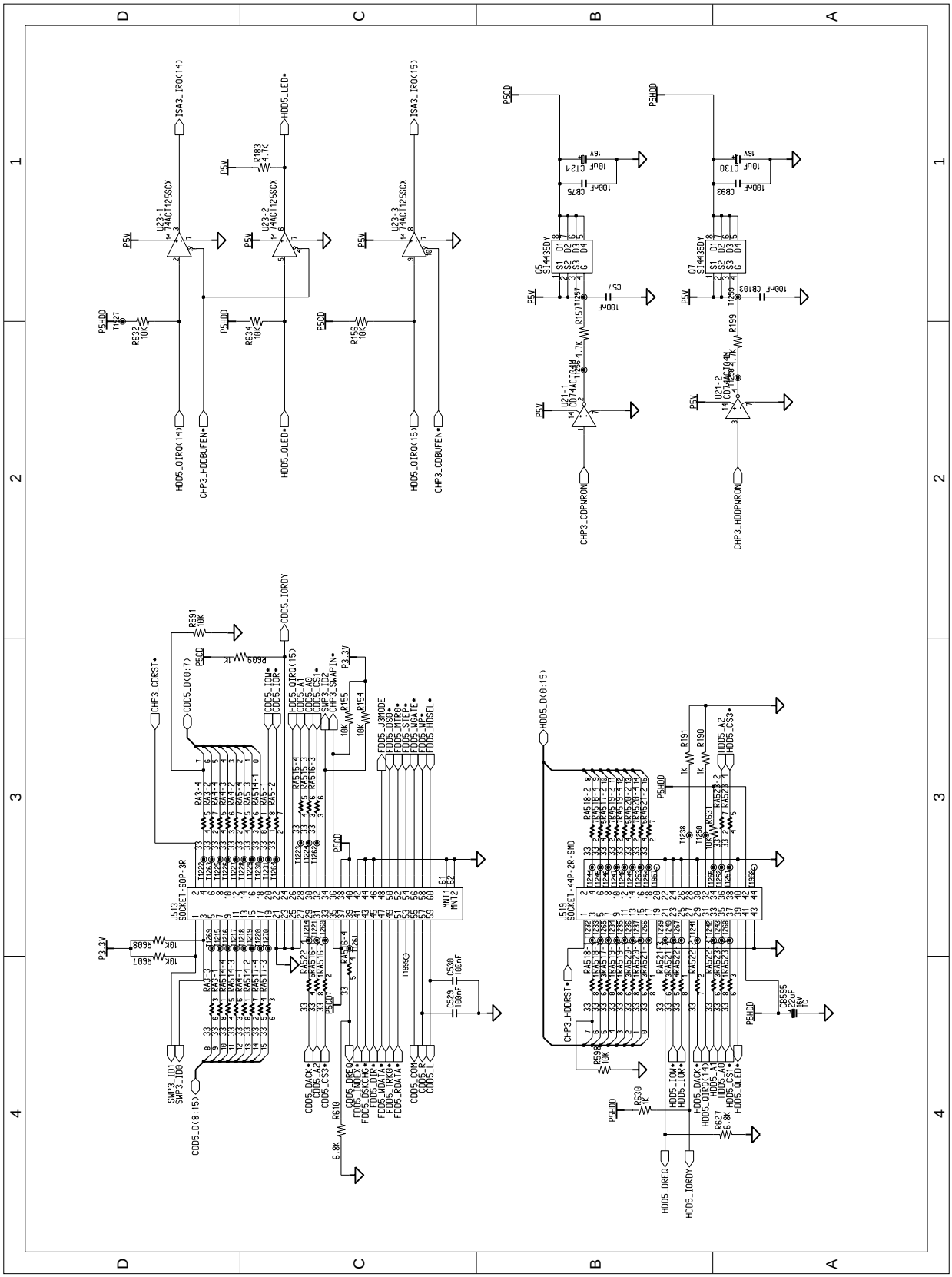
## 5-1-1(i) Main Board Schematic Sheet 10 of 26(PC CARD CONNECTOR)



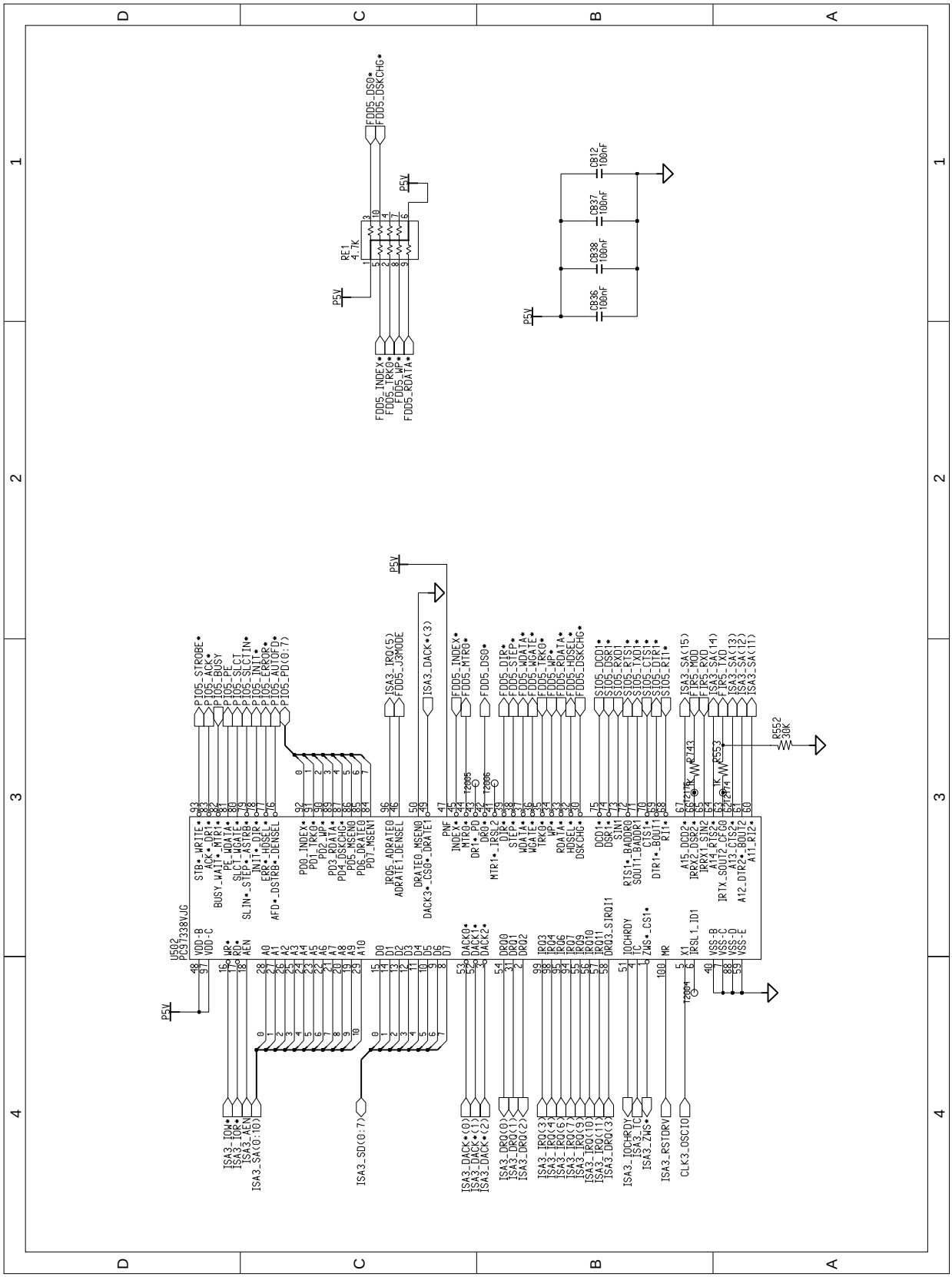
## 5-1-1(j) Main Board Schematic Sheet 11 of 26(FLASH ROM)


02 VERIFY REAL MODE
04 GET CPU TYPE
06 INIT. SYSTEM H/W
08 INIT. CHIPSET REG.
09 SET IN POST FLAG
0A INIT CPU REG.
0C INIT.CACHE TO POST
0E INIT. I/O VALUE
0F ENABLE THE L-BUS IDE
10 INIT. POWER MANAGER
11 LOAD ALTERNATE REG.
WITH INITIAL POST VALUE
12 JUMP TO USER PATCH 0
14 INIT. KEYBOARD CONTROLLER
18 8254 TIMER INIT.
1A 8237 DMA CONTROLLER INIT.
1C RESET INTERRUP CONTROLLER
20 TEST DRAM REFRESH
22 TEST 8742 KEYBOARD CONTROLLER
24 SET ES SEGMENT REG. TO 4GB
28 AUTO SIZING DRAM
32 SET CPU BUS CLOCK FREQUENCY
34 TESET CMOS RAM
37 RE-INIT. TIME CHIPSET
38 SHADOW SYSTEM BIOS ROM
39 RE-INIT. TIME CHIPSET
3A AUTO SIZING CACHE
3C CONFIGURE ADVANCED CHIPSET REG.
3D LOAD ALTER REG. WITH CMOS VALUE
40 SET INIT. CPU SPEED
42 INIT. INTERRUPT VECTOR
44 INIT. BIOS INTERRUPT
46 CHECK ROM COPYRIGHT NOTICE
47 INIT. MANAGER FOR PCI OPTION ROMS
48 CHECK VIDEO CONFIGURE AGAINST CMOS
49 INIT. PCI BUS AND DEVICE
4A INIT. ALL VIDEO BIOS ROM
4C SHADOW VIDEO BIOS ROM
50 DISPLAY CPU TYPE AND SPEED
52 TEST KEYBOARD
54 SET KEYCLICK IF ENABLED
56 ENABLE KEYBOARD
58 TEST FOR UNEXPECTED INTERRUPTS
5A DISPLAY " PRESS ..... SETUP"
5C TEST RAM GETWEEN 512K AND 640K
60 TEST EXTENDED MEMORY
62 TEST EXTENDED MEMORY ADDRESS LINE
64 JUMP TO USER PATCH 1
66 CONFIGURE ADVANCE CACHE REG.
68 ENABLE EXTERNAL AND CPU CACHE
6A DISPLAY EXTERNAL CACHE SIZE
6C DISPLAY SHADOW MESSAGE
6E DISPLAY NON-DISPOSABLE SEGMENT
70 DISPLAY ERROR MESSAGE
72 CHECK FOR CONFIGURATION ERROR
74 TEST REAL-TIME CLOCK
76 CHECK FOR KEYBOARD EERROR
7C SETUP HARDWARE INTERRUPT VECTOR
7E TEST COPROCESSER IF PRESENT
80 DISABLE ON-BOARD I/O PORT
82 DETECT AND INSTALL EXT RS232C
84 DETECT AND INSTALL EXT PARALLEL
86 RE-INIT. ON-BOARD I/O PORT
88 INIT. BIOS DATA ROM
8A INIT.EXTENDED BIOS DATA AREA
8C INIT. FDD CONTROLLER
9A SHADOW OPTION ROMS
9C SETUP POWER MANAGEMENT
9E ENABLE H/W INTERRUPT
A0 SET TIME OF DAY
A4 INIT. TYPEMATIC RATE
A8 ERASE F2 PROMPT
AA SCAN FOR F2 KEY STROKE
AC ENTER SETUP
AE CLEAR IN POST FLAG
B0 CHECK FOR ERRORS
B2 POST DONE-PREPARE TO BOOT O/S
B4 ONE BEEP
B6 CHECK PASSWORD (OPTION)
B8 CLEAR GLOBAL DESCRIPTOR TABLE
BE CLEAR SCREEN
C0 TRY BOOT WITH INT19
D0 INTERRUPT HANDLER ERROR
D2 UNKNOWN INTERRUPT ERROR
D4 PENDING INTERRUPT ERROR
D6 INIT. OPTION ROM ERROR
D8 SHUTDOWN ERROR
DA EXTENDED BLOCK MOVE
DC SHUTDOWN TO ERROR
90 INIT. HDD CONTROLLER
91 INIT. LOCAL BUS HDD CONTROLLER
92 JUMP TO USER PATCH 2
94 DISABLE A20 ADDRESS LINE
96 CLEAR HUGE ES SEGMENT REG.
98 SEARCH FOR OPTION ROMS
U503
SST29EE020
VCC
VSS
RESET
R182 10K
R193 10K
R194 1K
U26 ELM7SG04AS
Q3 2N7002LT1
P5V
ISA3_SA(0:17)
ISA3_SD(0:7)
CHP3_BIOSCS#
ISA3_MEMR#
ISA3_MEMW#
CHP3_BIOSWP

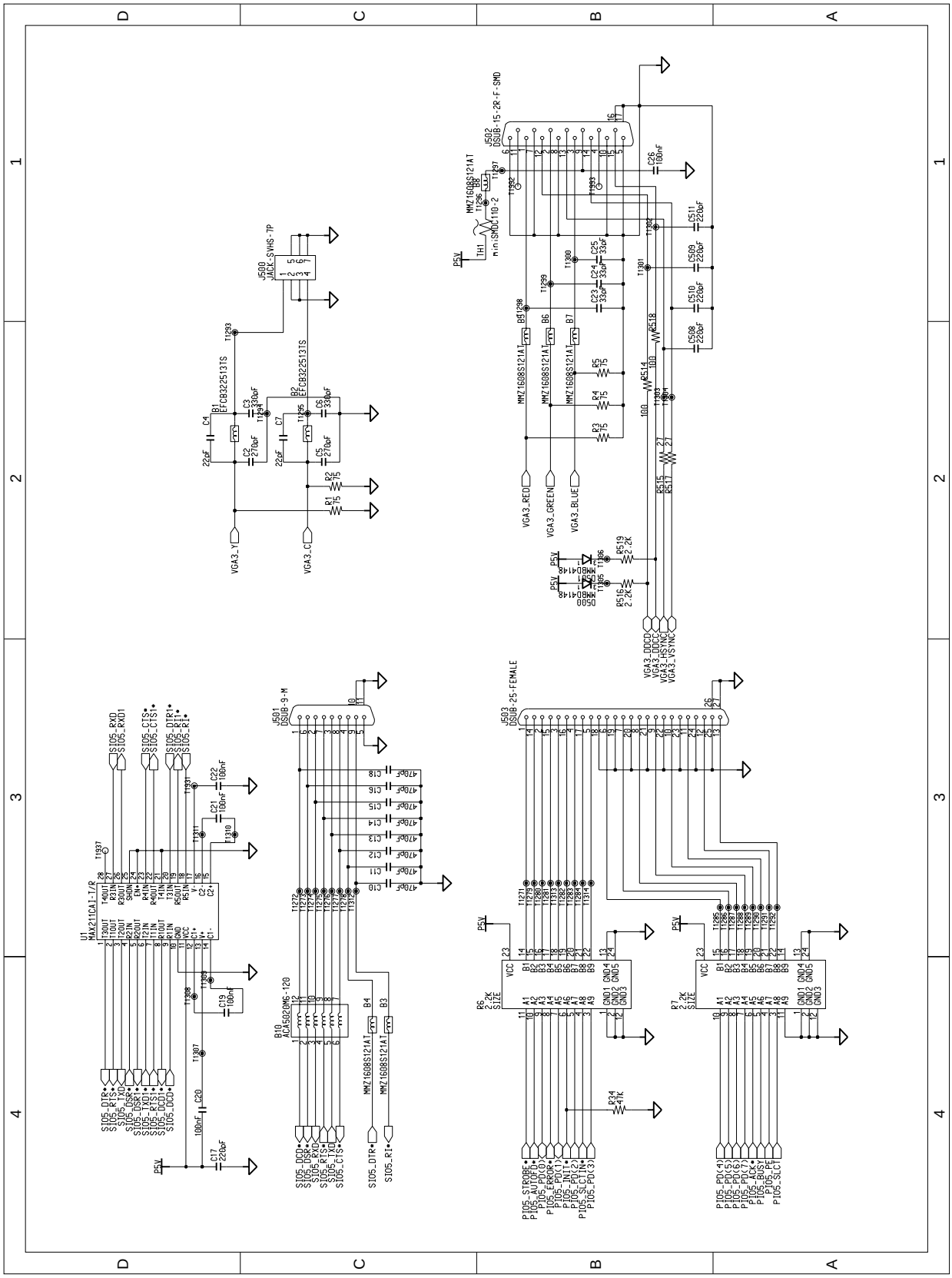
## 5-1-1(k) Main Board Schematic Sheet 12 of 26(HDD & CD-ROM CONNECTOR)



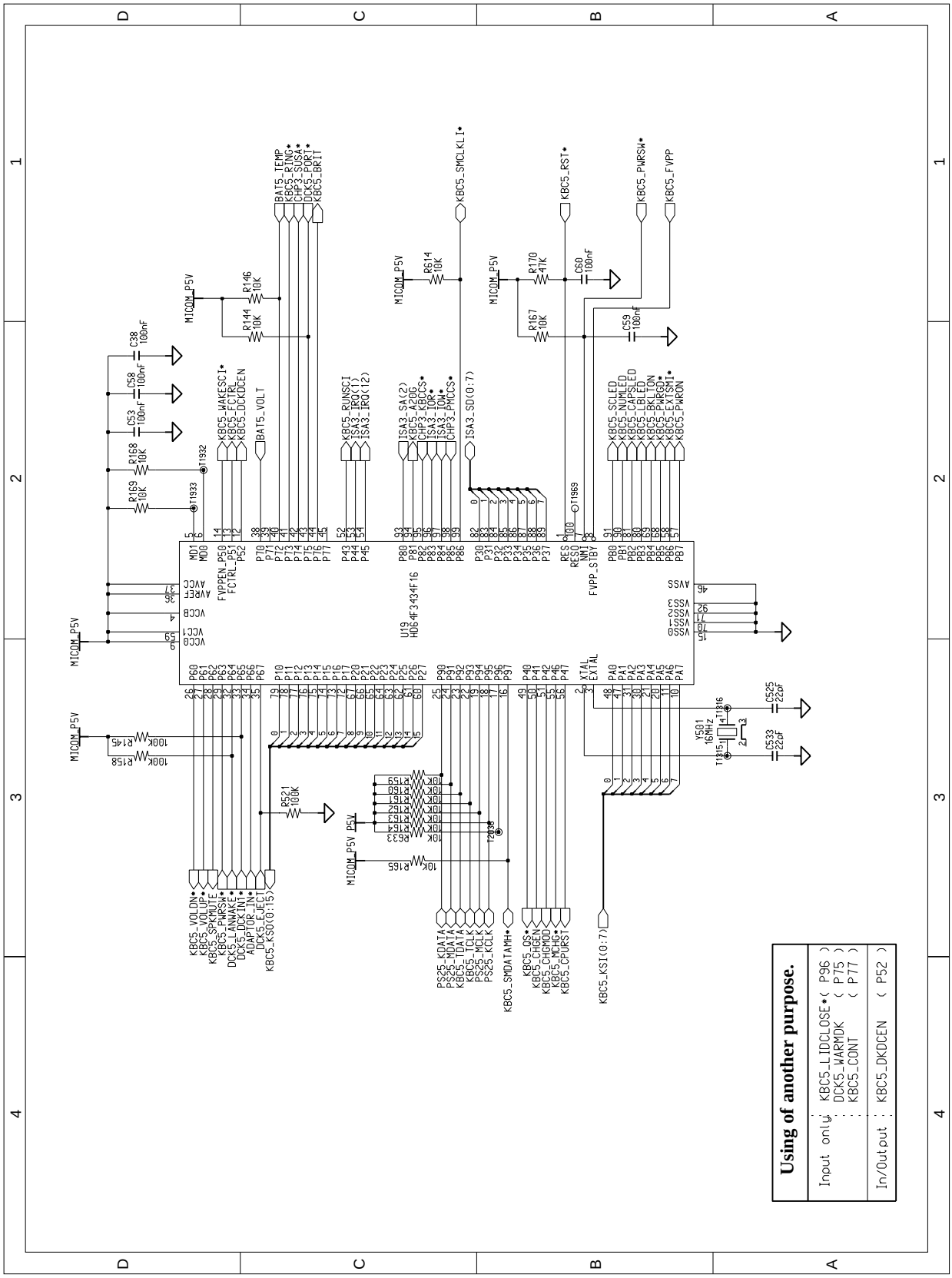
## 5-1-1(l) Main Board Schematic Sheet 13 of 26(SUPER I/O CONTROLLER)



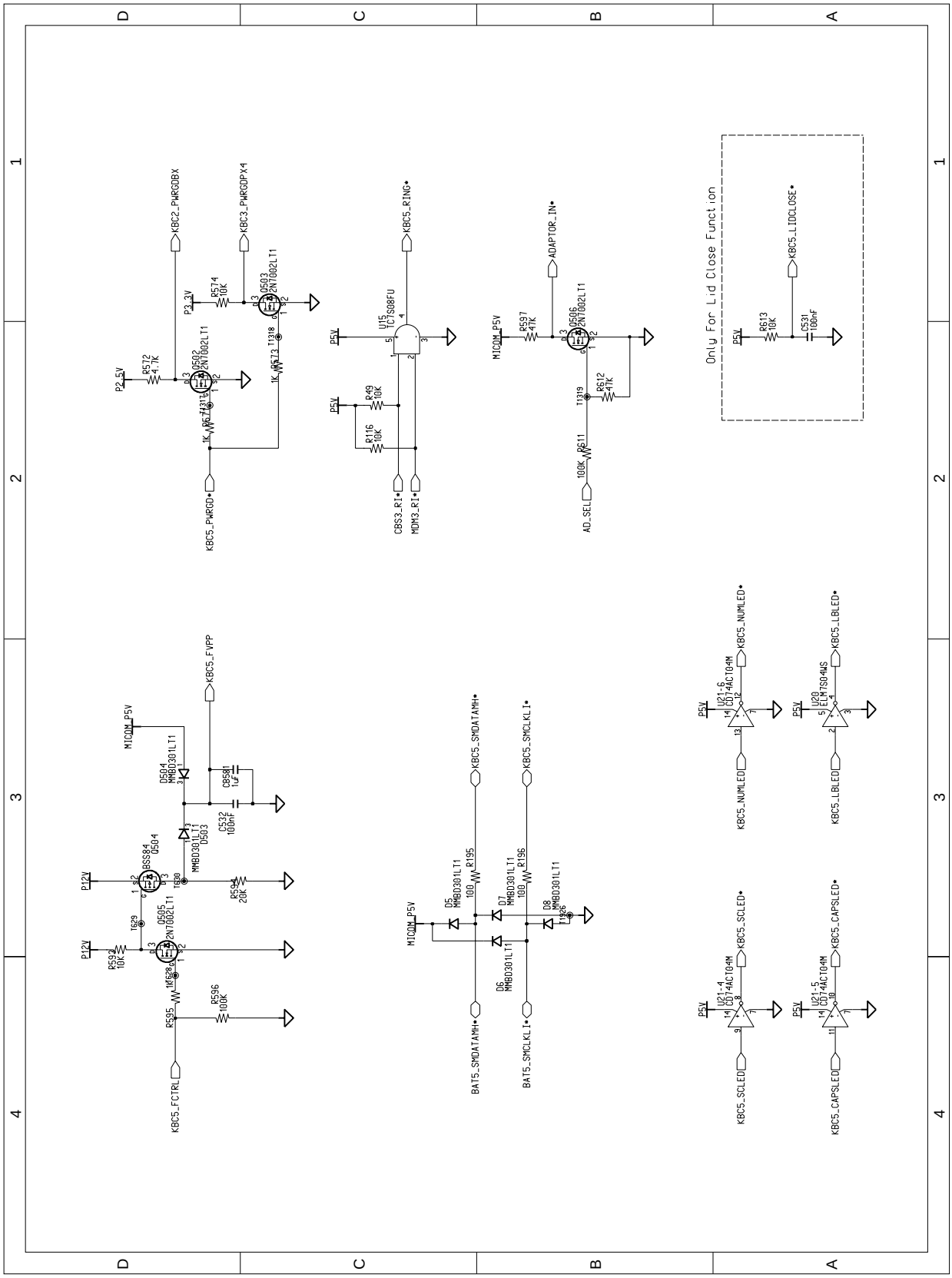
## 5-1-1(m) Main Board Schematic Sheet 14 of 26(SIO, PIO, CRT & TV_OUT[S-VHS])



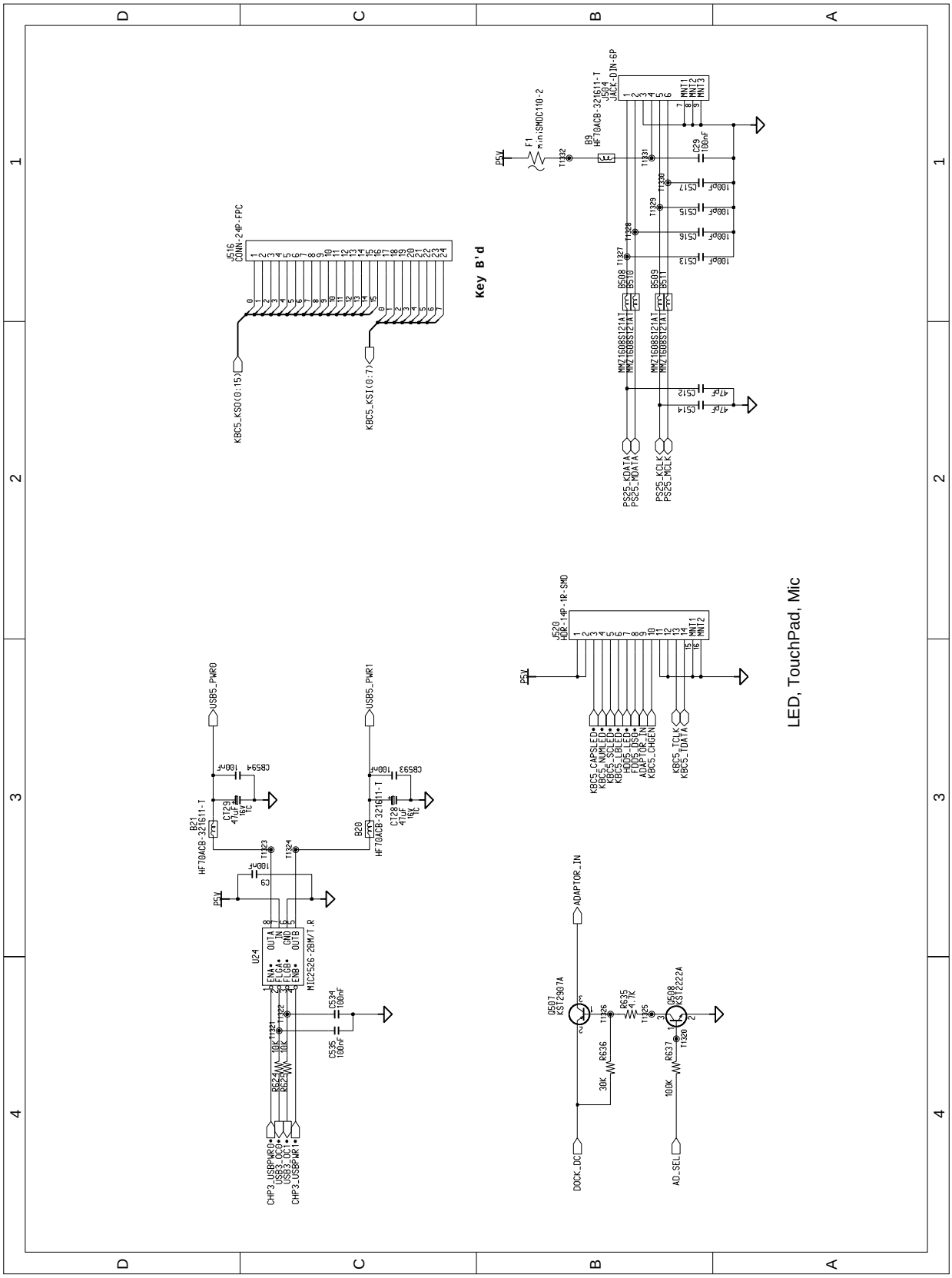
## 5-1-1(n) Main Board Schematic Sheet 15 of 26(MICOM)



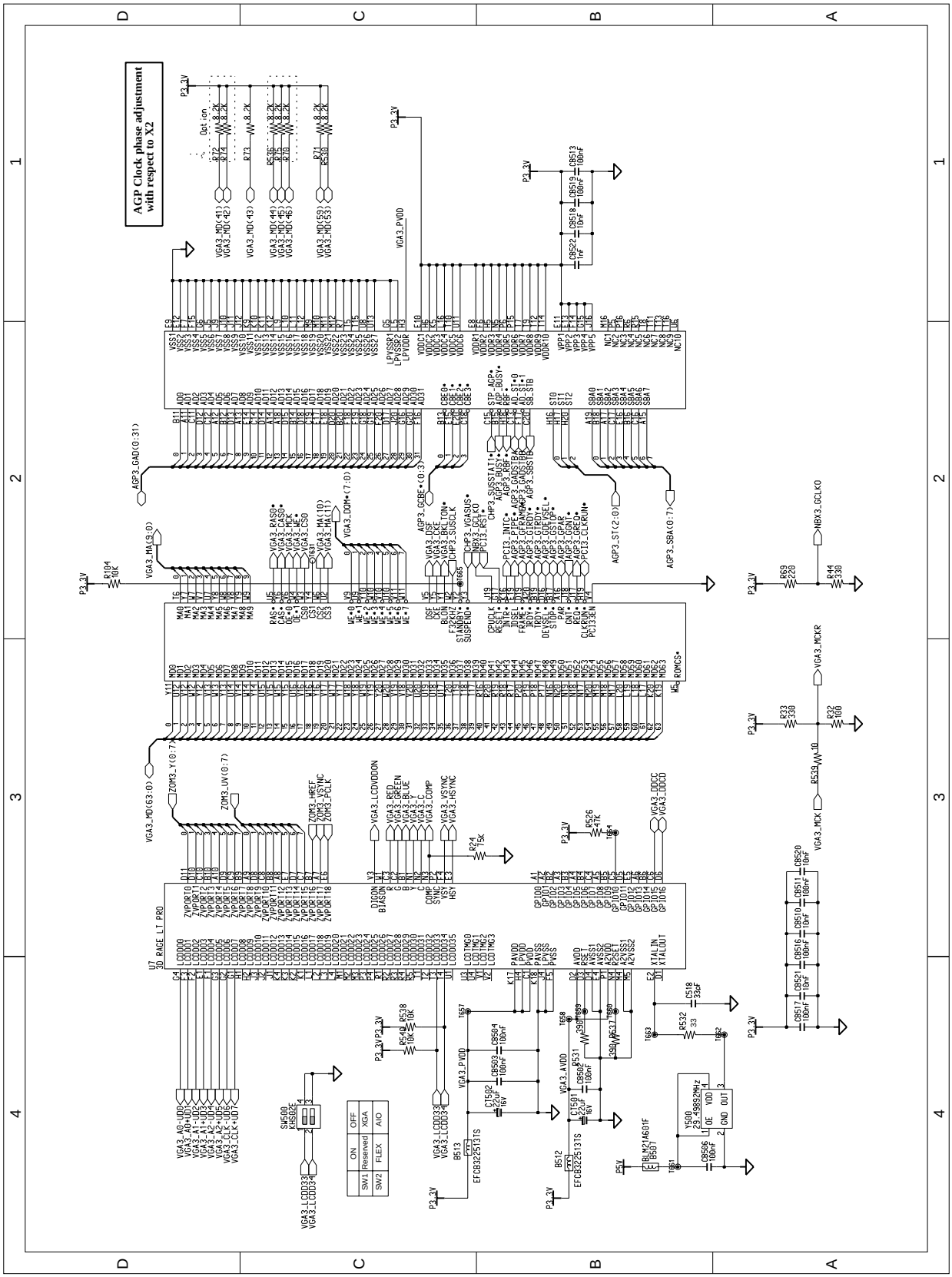
## 5-1-1(o) Main Board Schematic Sheet 16 of 26(MICOM SUB)



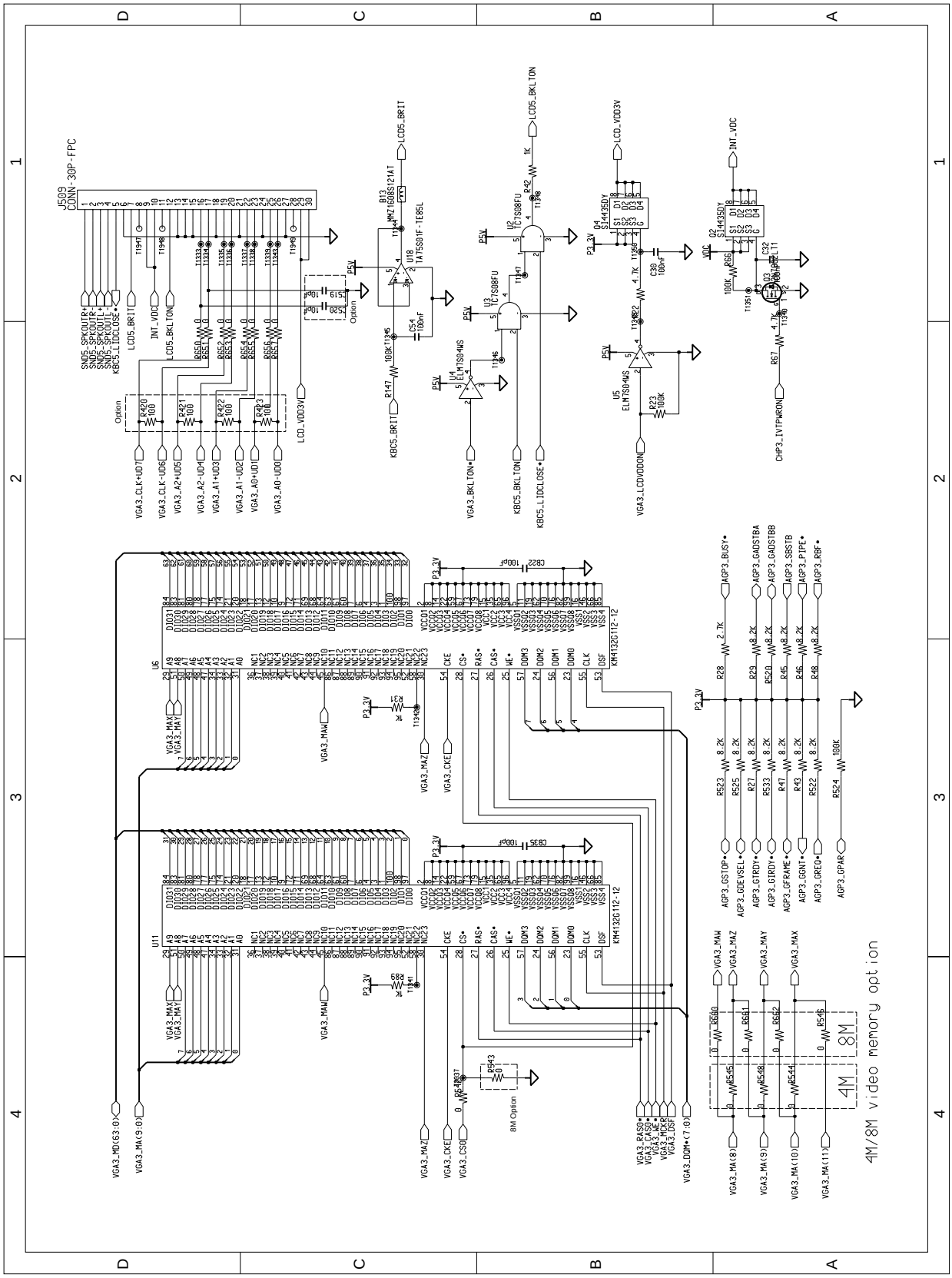
## 5-1-1(p) Main Board Schematic Sheet 17 of 26(USB, IR, TOUCH PAD & KEY B'D)



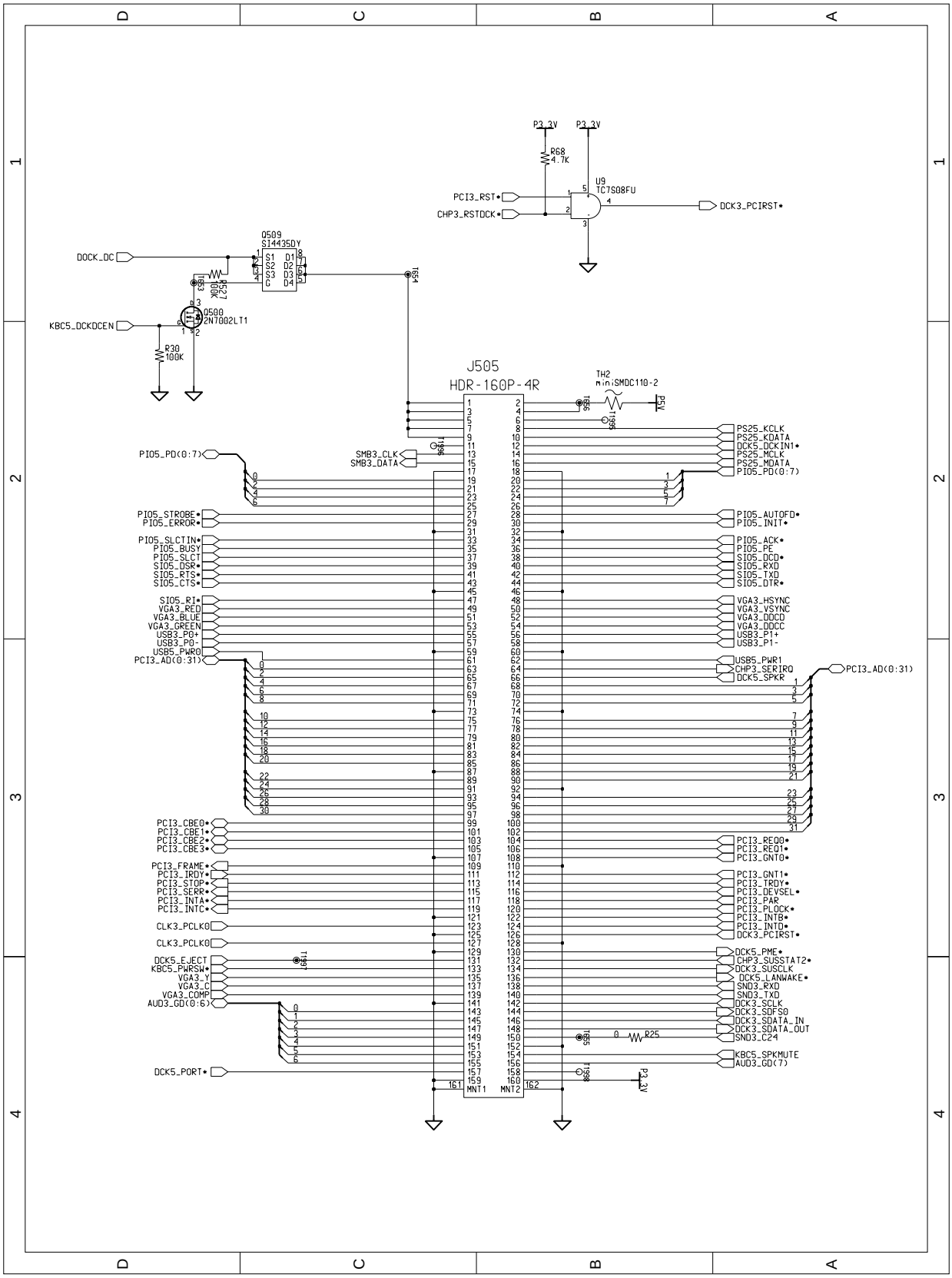
## 5-1-1(q) Main Board Schematic Sheet 18 of 26(VIDEO CONTROLLER)



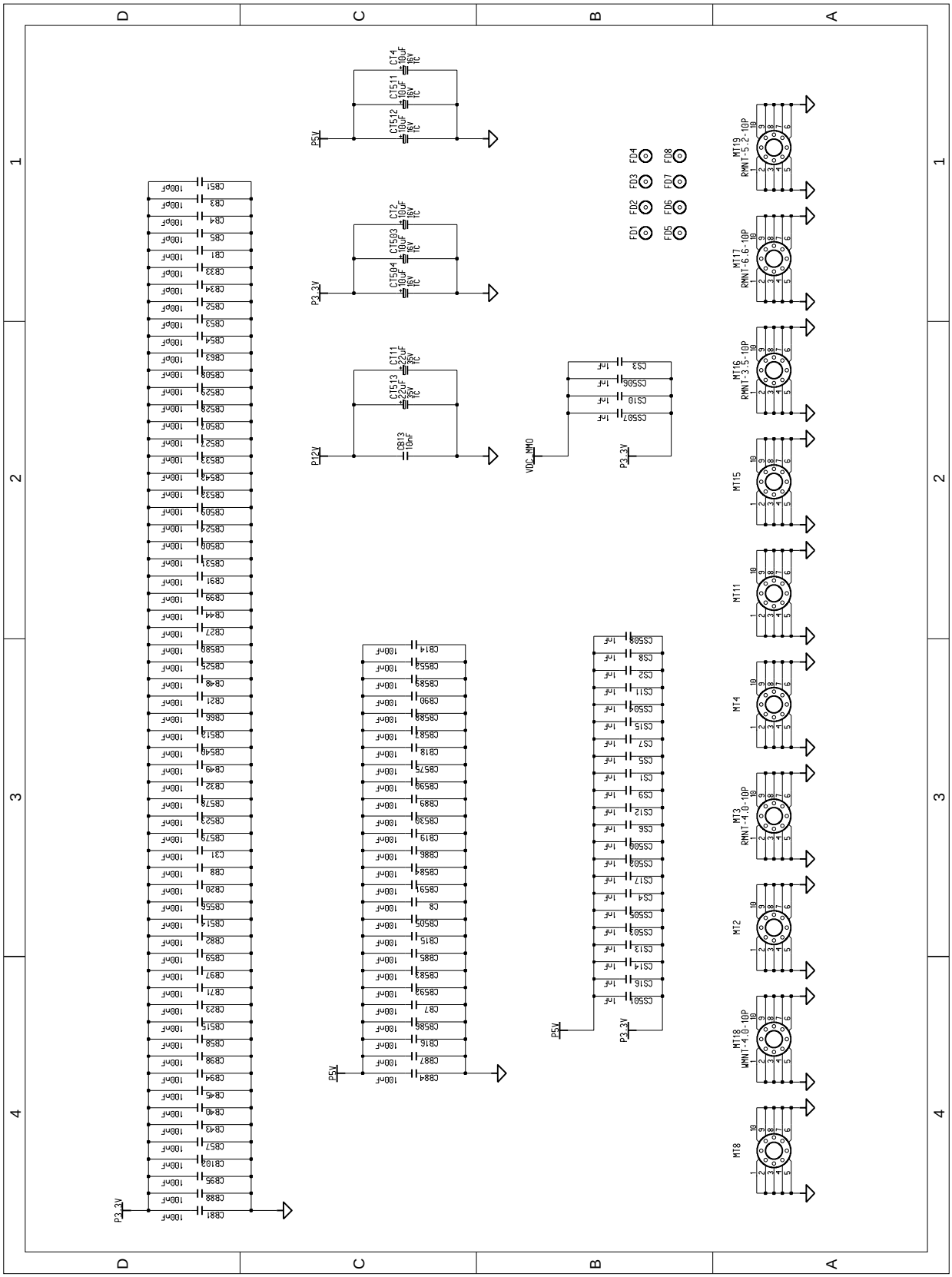
## 5-1-1(r) Main Board Schematic Sheet 19 of 26(SGRAM & LCD CONNECTOR)



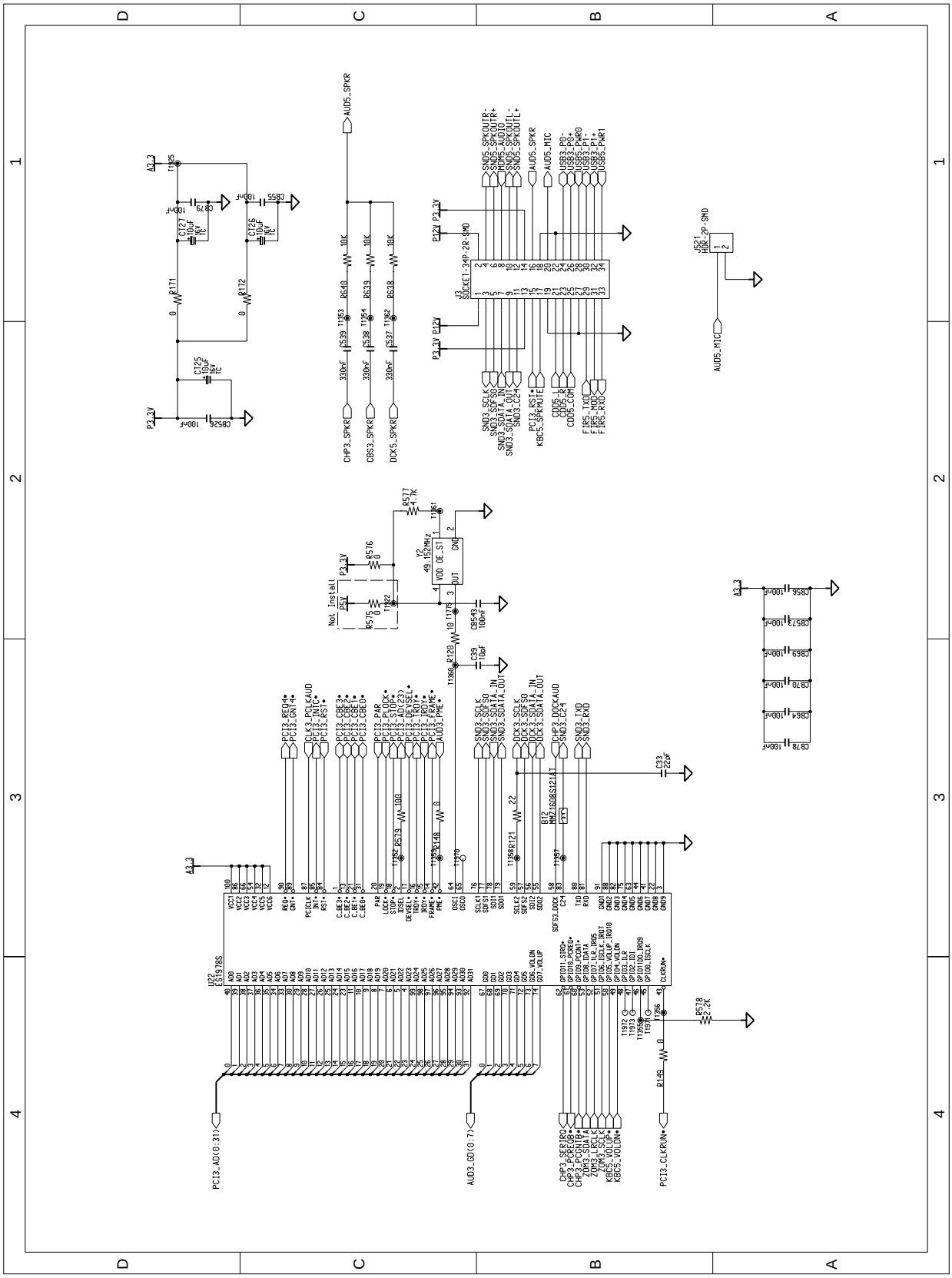
## 5-1-1(s) Main Board Schematic Sheet 20 of 26(DOCKING CONNECTOR)



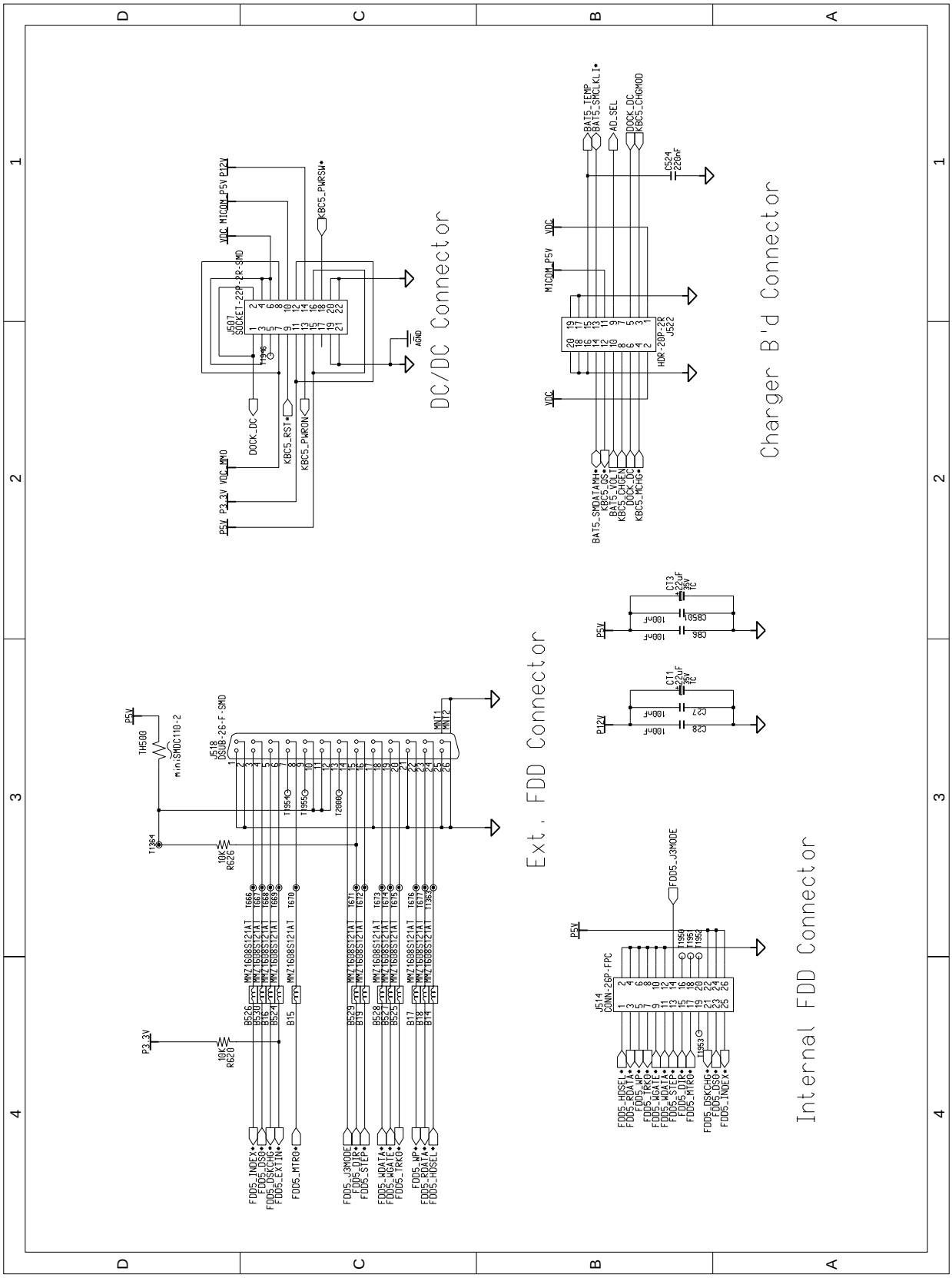
## 5-1-1(t) Main Board Schematic Sheet 21 of 26(MOUNT HOLE & BYPASS CAP.)



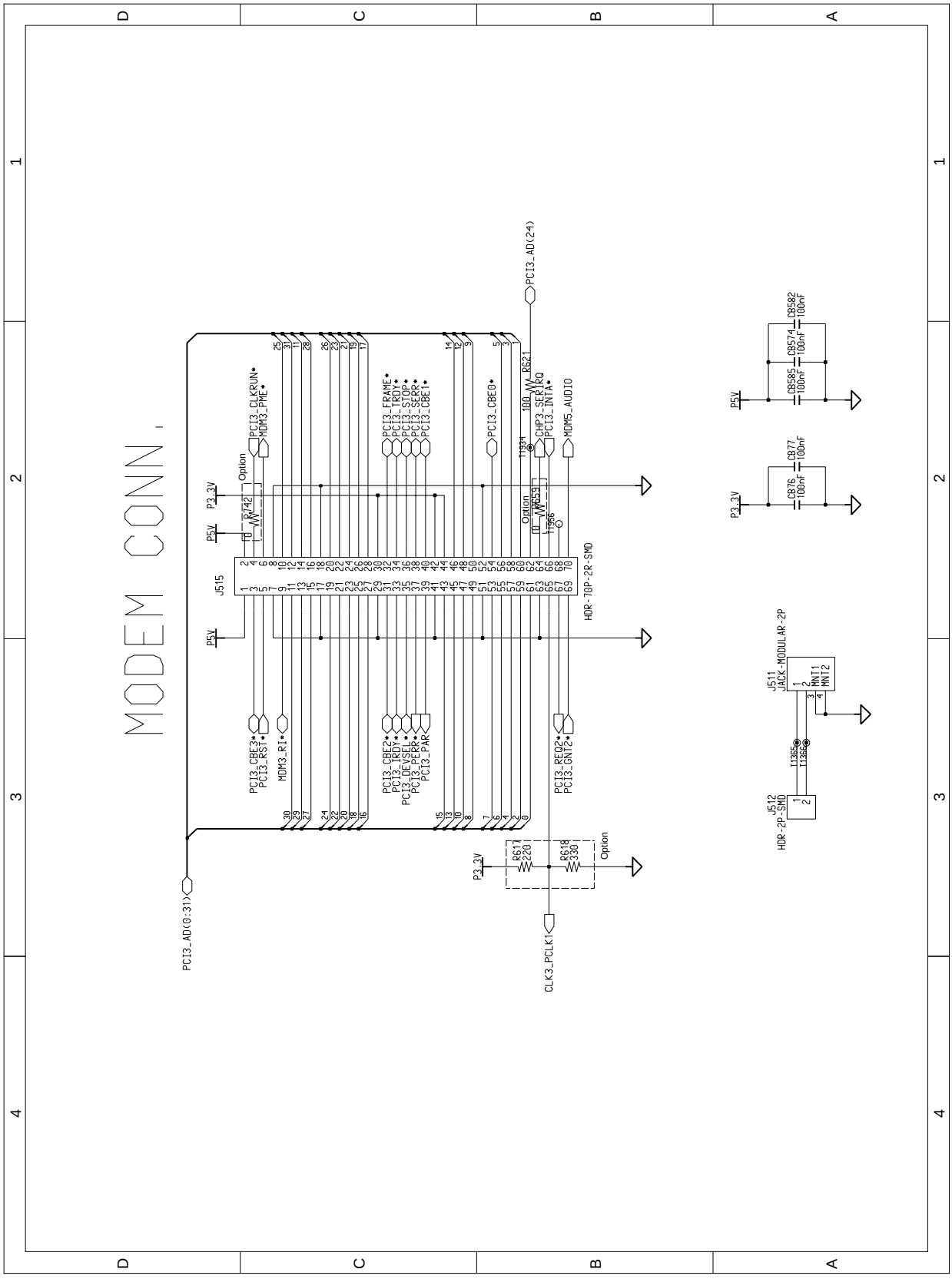
## 5-1-1(u) Main Board Schematic Sheet 22 of 26(AUDIO CHIP & IrDA I/F)



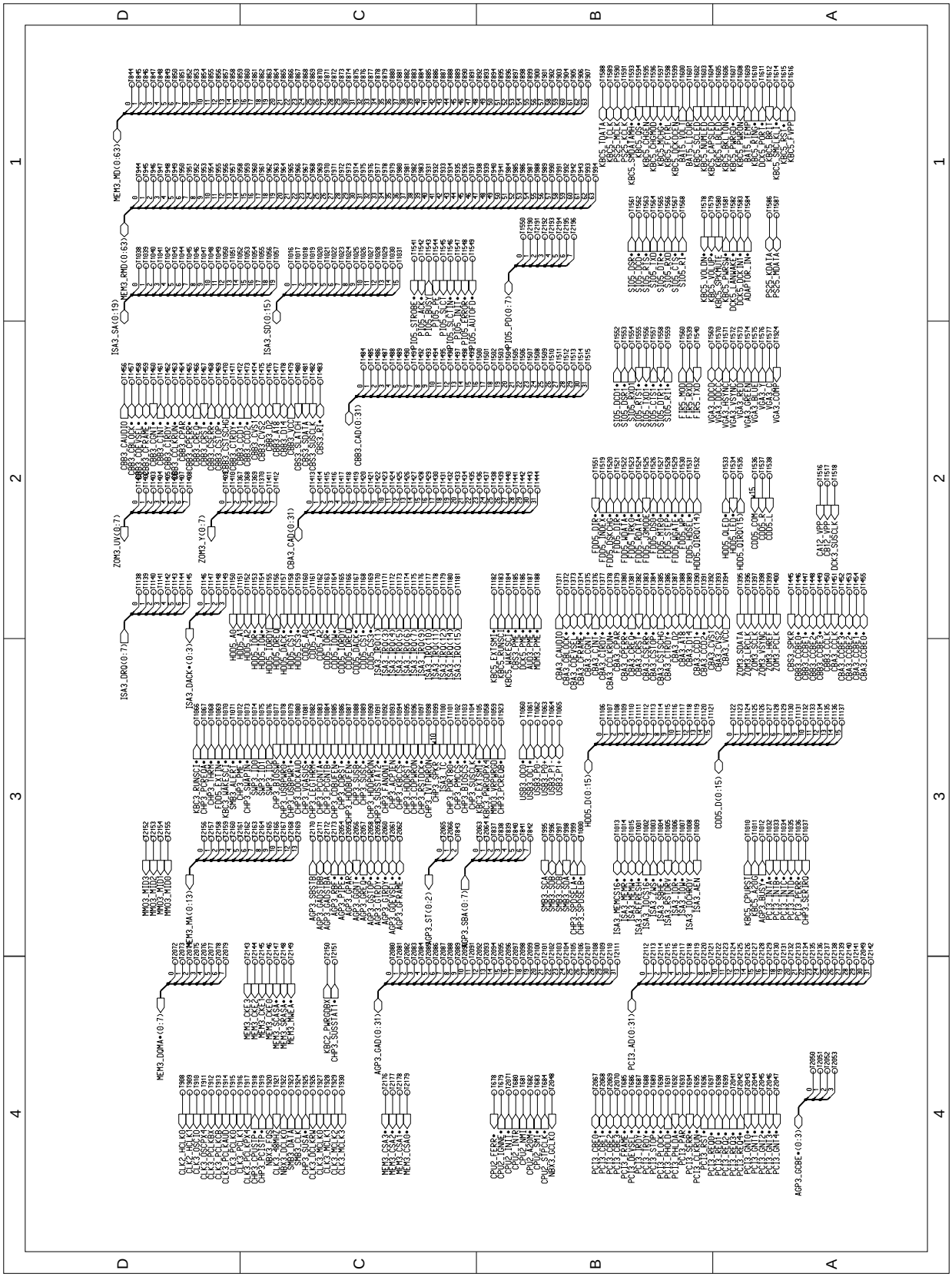
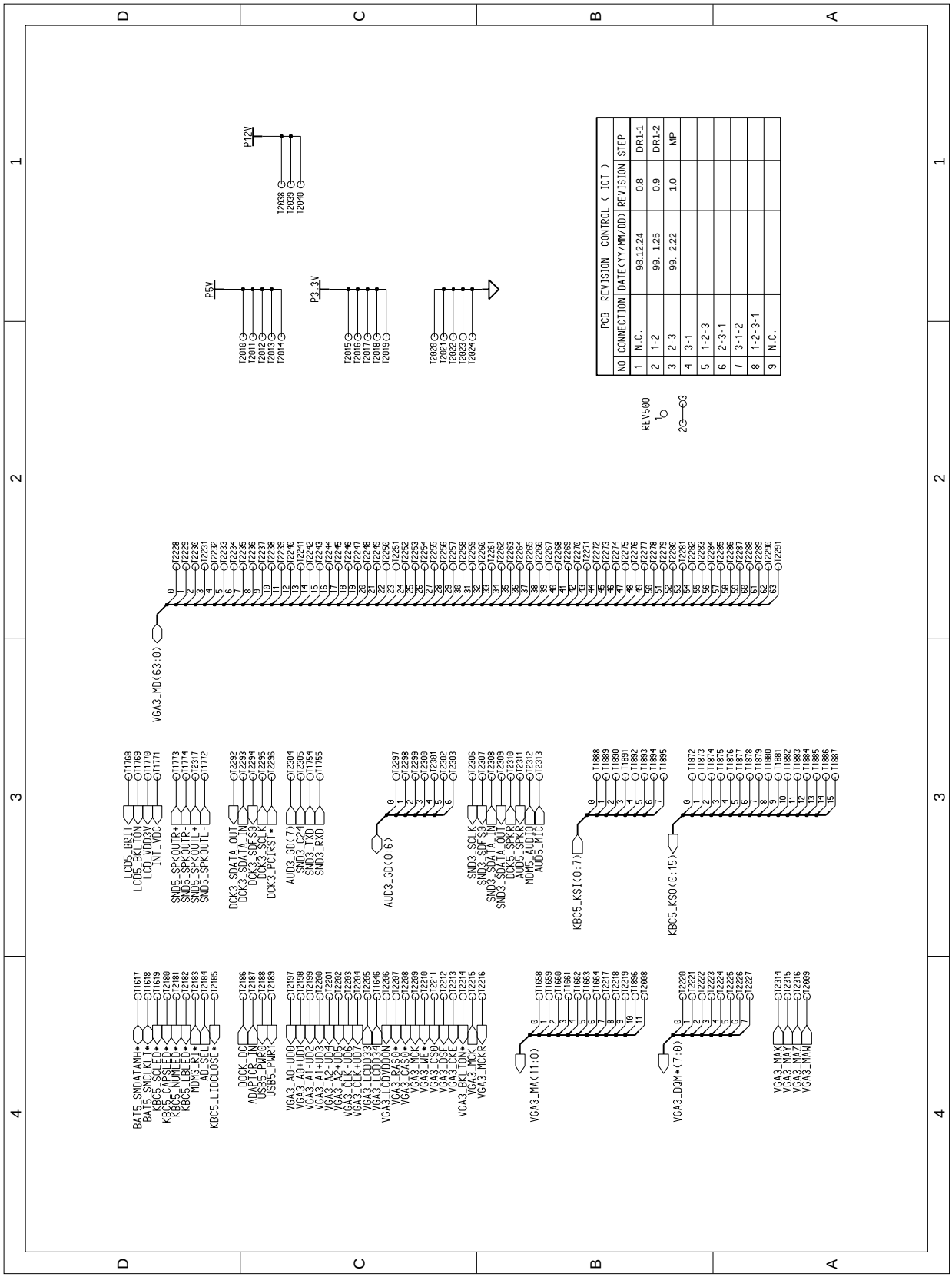
## 5-1-1(v) Main Board Schematic Sheet 23 of 26(PWR CONN. EXT FDD)



## 5-1-1(w) Main Board Schematic Sheet 24 of 26(MODEM CONNECTOR)



## 5-1-1(x) Main Board Schematic Sheet 25 of 26



## 5-1-1(y) Main Board Schematic Sheet 26 of 26